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ДО ВСИЧКИ

ЗАИНТЕРЕСОВАНИ ЛИЦА

РАЗЯСНЕНИЯ

ОТНОСНО: Пазарна консултация № 52740 с предмет: “Модернизация на вентилационните системи в ХОГ с постоянен режим на работа”

Уважаеми дами и господа,

Във връзка с провеждане на пазарна консултация № 52740 с предмет: “Модернизация на вентилационните системи в ХОГ с постоянен режим на работа”, „АЕЦ Козлодуй” ЕАД дава следните разяснения:

Въпрос: Молба да бъдат публикувани приложенията към Техническо задание №20.ХОГ.ТЗ.42.

Отговор: Към настоящото разяснение публикуваме Приложение №1 – Класификация на ВС обект на подмяна, Приложение №2 – Изисквания за сеизмична квалификация на ВС и Приложение №3 – Технически параметри на ВС.

Приложение:

1. Приложение №1 – Класификация на ВС обект на подмяна;
2. Приложение №2 – Изисквания за сеизмична квалификация на ВС;
3. Приложение №3 – Технически параметри на ВС.

Приложение №1

Класификация на КСК объект на подмяна

№	оборудване	Клас по чл. 18 на НОБУОЯГ	Клас по безопасност по SSG-30	Клас по безопасност по НП-001-97*	Категория по сейсмична устойчивост по NS-G-1.6	Категория по сейсмична устойчивост по НП-031-01
1.	Система LK21	СВБ	3	3	Цел 3**	Цел 1
2.	Системи LK11, LK13, LK14, LK23, LK24, LK31	СНЕ	БОБ	4	4***	3

НОБУОЯГ - Наредба за осигуряване безопасността при управление на отработено ядрено гориво, *Приета с ПМС № 196 от 02.08.2004 г.*

SSG-30 - "Safety Classification of Structures, Systems and Components in Nuclear Power Plants", SSG-30, IAEA, Vienna, 2014.

НП-001-97* - Общие положения обеспечения безопасности атомных станций, НП-001-97 (ПНАЭ Г-01-011-97 “Общие положения обеспечения безопасности атомных станций”, ОПБ-88/97) заменена с НП-001-15.

NS-G-1.6 - Seismic Design and Qualification for Nuclear Power Plants. Safety Guide, IAEA, Viena 2003.

НП-031-01 - Нормы проектирование сейсмостойких атомных станций.

3** - КСК сейсмична категория 3 се осигуряват за сейсмично ниво SL-2 ($MP3=0.2g$). Основните изисквания за сейсмичната им квалификация са дадени в т.2 на Приложение №4.

4*** - КСК сейсмична категория 4 се осигуряват за сейсмично ниво SL-1 ($ПЗ=0.1g$). Основните изисквания за сейсмичната им квалификация са дадени в т.2 на Приложение №4.

СВБ - (системи важни за безопасността) КСК, важни за безопасността се проектират като се отчетат и изискванията на Наредба за осигуряване безопасността на ядрените централи от 21.09.2016 г. - Глава шеста.

БОБ – без отношение към безопасността.

СНЕ – системи за нормална експлоатация.



Цех ХТС и СК

СПЕЦИФИКАЦИЯ

Сп.ХТС-2/18.01.2021 г.

на изисквания за сеизмоустойчивост на оборудване
по Заявка №2/15.01.2021 г.

Относно: Подмяна на вентилационни агрегати в цех ХОГ

1. Обхват и класификация:

1.1. Обхват:

Настоящата спецификация е изготвена за проектиране на оборудването по техническо задание (ТЗ) №20.ХОГ.ТЗ.42 на тема: „Подмяна на оборудване от вентилационните системи в ХОГ с постоянен режим на работа”. В обхвата на ТЗ са включени следните системи и оборудване:

1.1.1. Приточни вентилационни системи LK11, LK13, LK14:

- вентилатори;
- клапани;
- филтри;
- прибори за измерване на пада на налягането в новите филтри (датчици, манометри).

1.1.2. Смукателни вентилационни системи LK21, LK23, LK24, LK31:

- вентилатори;
- въздуховоди от система LK21;
- кабелни трасета (при необходимост).

1.2. Класификация по сеизмоустойчивост:

1.2.1. Вентилационна система LK21 е класифицирана в ТЗ като:

- сеизмична категория – **3** съгласно NS-G-1.6 “Seismic Design and Qualification for Nuclear Power Plants.Safety Guide, IAEA, Vienna 2003”;

1.2.2. Вентилационни системи LK11, LK13, LK14, LK23, LK24 и LK31 са класифицирани в Приложение №3 на ТЗ в съответствие с таблица IV.3 на документ №50.ХОГ.ОАБ.01/2 „Отчет за анализ на безопасността на ХОГ с технология за съхранение под вода” като:

- сеизмична категория – **4** съгласно NS-G-1.6 и се осигуряват за сеизмично ниво SL-1 (ПЗ=0,1g).

2. Основни изисквания за сеизмичната квалификация на оборудването:

2.1. В съответствие с т.2.29 от NS-G-1.6 оборудване от категория **3** трябва да е сеизмично квалифицирано за сеизмично въздействие с ниво МРЗ. В конкретния случай е необходимо да се докаже, че оборудването от система LK21 запазва цялост и функционалност по време на и след земетресение с ниво МРЗ. Сеизмоустойчивостта на оборудването да бъде доказана в съответствие с изискванията за сеизмична квалификация на действащите нормативни документи, приложими за АЕЦ като:

- NS-G-1.6 “Seismic Design and Qualification for Nuclear Power Plants.Safety Guide, IAEA, Vienna 2003”;
- IEEE Standard 344 – 2013 “Recommended Practice for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations”;
- ПНАЭ Г 7-002-86 “Нормы расчета на прочность оборудования и трубопроводов атомных энергетических установок”;
- ASME AG-1 “Code on nuclear air and gas treatment”.

2.2. В съответствие с т.2.22 от NS-G-1.6, оборудването от системи LK11, LK13, LK14, LK23, LK24 и LK31 се квалифицира в съответствие с действащите нормативни документи, изискванията на които се разпространяват на граждански и промишлени обекти. В България това е системата Еврокод за стоманобетонни и стоманени конструкции. Националният сеизмичен код да бъде приложен като се използват сеизмичните характеристики за ниво ПЗ (максимално ускорение, етажни спектри на реагиране) за мястото на монтиране в АЕЦ „Козлодуй”.

2.3. Използването на други нормативни документи трябва да бъде обосновано.

3. Спектри на реагиране:

3.1. Приложение 1 (12 стр.) за кота +7^{.20}, пом. 224 и пом.226, ХОГ:

Спектър на реагиране за ускорение за възел 722 /графичен и табличен вид/, съгласно отчет РИД/Д-185/5 “Актуализирани етажни спектри на реагиране за укрепената конструкция на ХОГ на АЕЦ „Козлодуй”, Допълнение 1, “Риск Инженеринг” ООД, май 2000г. – Фиг.Д.21 и Таблица Д-15 за МРЗ и Фиг.Д-40 и Таблица Д-34 за локални земетресения.

3.2. Приложение 2 (17 стр.) за кота +12^{.00}, пом. 302, ХОГ:

Спектър на реагиране за ускорение за възел 918 /графичен и табличен вид/, съгласно отчет РИД/Д-185/5 “Актуализирани етажни спектри на реагиране за укрепената конструкция на ХОГ на АЕЦ „Козлодуй”, “Риск Инженеринг” ООД, май 2000г. – Фиг.П1-9 и Таблица П2-9 за МРЗ и Фиг.П1-21 и Таблица П2-21 за локални земетресения.

3.3. Приложение 3 (17стр.) за кота +12^{.00}, пом. 303 и таван на пом. 224, ХОГ:

Спектър на реагиране за ускорение за възел 936 /графичен и табличен вид/, съгласно отчет РИД/Д-185/5 “Актуализирани етажни спектри на реагиране за укрепената конструкция на ХОГ на АЕЦ „Козлодуй”, “Риск Инженеринг” ООД, май 2000г. – Фиг.П1-10 и Таблица П2-10 за МРЗ и Фиг.П1-22 и Таблица П2-22 за локални земетресения.

3.4. Приложение 4 (12стр.) за кота +12^{.00}, пом. 305, ХОГ:

Спектър на реагиране за ускорение за възел 924 /графичен и табличен вид/, съгласно отчет РИД/Д-185/5 “Актуализирани етажни спектри на реагиране за укрепената конструкция на ХОГ на АЕЦ „Козлодуй”, Допълнение 1, “Риск Инженеринг” ООД, май 2000г. – Фиг.Д.25 и Таблица Д-19 за МРЗ и Фиг.Д.44 и Таблица Д-38 за локални земетресения.

3.5. Приложение 5 (12стр.) за кота +18^{.60}, таван на пом. 302, 303 и 305, ХОГ:

Спектър на реагиране за ускорение за възел 1124 /графичен и табличен вид/, съгласно отчет РИД/Д-185/5 “Актуализирани етажни спектри на реагиране за укрепената конструкция на ХОГ на АЕЦ „Козлодуй”, Допълнение 1, “Риск Инженеринг” ООД, май 2000г. – Фиг.Д.27 и Таблица Д-21 за МРЗ и Фиг.Д.46 и Таблица Д-40 за локални земетресения.

4. Допълнителни указания и изисквания:

4.1. Определяне на сеизмичното въздействие:

4.1.1. Приложените спектри за вероятност 10^{-4} са поотделно за проверочно земетресение (RLE, МРЗ) и локално земетресение (LE). Оборудването трябва да бъде квалифицирано за двата предоставени спектъра (RLE и LE) за мястото, на което се монтира.

4.1.2. Стойностите на спектъра за ниво ПЗ (вероятност за поява 10^{-2}) се получават като стойностите на спектъра за МРЗ се редуцират два пъти.

4.1.3. За площадката на АЕЦ “Козлодуй” максималното ускорение при нулев период на спектъра на реагиране за свободна повърхност за МРЗ=0.2g и за ПЗ=0.1g.

4.1.4. Стойностите за затихването да се определят в съответствие с използвания нормативен документ, например NRC RG 1.61 “Damping values for seismic design of nuclear power plants” или друг приложим нормативен документ.

4.1.5. При необходимост от една хоризонтална съставляща, то тя се получава чрез корен квадратен от сумата на квадратите на спектрите на реагиране за двете хоризонтални съставлящи.

4.1.6. При определяне на сеизмичното въздействие да се отчита и реакцията на междинните конструкции, разположени между основната кота, за която се отнасят приложените спектри или е изчислено сеизмичното въздействие и основното оборудване (например, монтиране на помощна метална конструкция, на стена и др.) с подходящ коефициент на усилване не по-малък от 1.5.

4.1.7. При необходимост от използването на акселерограма, тя трябва да има следните параметри:

- продължителност - 61 сек.
- фаза на нарастване - 4 сек.
- интензивна част - 17 сек.
- фаза на затихване - 40 сек.

4.2. Методика за доказване на сеизмоустойчивост:

4.2.1. Аналитичен метод – приложим е когато основните изисквания за сеизмична квалификация на оборудването се свеждат до запазване на структурна цялост при земетресение. В конкретния случай да се извършат якостни изчисления при комбинации от натоварвания, включващи и сеизмично въздействие за доказване сеизмоустойчивостта на:

- детайлите за закрепване (болтове, заваръчни шевове, монтажни планки и др.) на вентилаторите и филтрите към опорната им конструкция, както и на опорната конструкция към съществуващата строителна конструкция;

- опорните конструкции за монтаж на вентилаторите и филтрите;

- закрепването на опорните конструкции към съществуващата строителна конструкция;

- въздуховодите от система LK21 и опорните им конструкции. Въздуховодите и опорните конструкции да се проектират по съвместими нормативни документи;

- конструкцията на кабелните трасета и опорните им конструкции, закрепването на кабелните трасета към опорите им и закрепването на опорите към строителната конструкция (при необходимост от нови).

В съответствие с т.5.2 на NS-G-1.6, сеизмичното въздействие за анализите, дефинирано с трикомпонентен спектър на реагиране (или акселерограми), да се прилага едновременно в трите направления.

4.2.2. Експериментален метод – приложим е за доказване на сеизмичната квалификация на вентилаторите от система LK21 по изискванията на указаните в т.2.2 документи.

4.2.3. Доказване на сеизмоустойчивост по резултатите от по-рано извършени типови динамични изпитания – доказване на сеизмоустойчивостта на вентилаторите от система LK21 е възможно при извършване на сеизмична квалификация по резултати от по-рано извършени:

- типови динамични изпитания;

- динамични изпитания на подобно оборудване;

- динамични изпитания за други обекти.

Приложимостта на резултатите от по-рано извършвани изчисления и/или тестове се извършва по критериите и последователността, описана в т.5.3.

5. Документиране на квалификацията за сеизмоустойчивост

5.1. При извършване на сеизмична квалификация на оборудването чрез анализ, документът за сеизмична квалификация трябва да съдържа: използвани нормативни документи; метод за сеизмична квалификация; ниво на въздействие; необходим (изчислителен) спектър на реагиране (НСР); изчислителен модел; комбинации на натоварване; допустими стойности на оценяваните параметри; използвани критерии за оценка; схема на натоварване; подробно описание на получените резултати (включително: собствени честоти; собствени форми; диаграми на получени усилия, деформации, напрежения, премествания и др.); таблица с опорните реакции в точките на закрепване на оборудването; компактдиск (CD), съдържащ пълна разпечатка от компютърната програма за извършените изчисления; обобщение, анализ на получените резултати и заключения за сеизмоустойчивост.

5.2. При сеизмично квалифициране чрез динамичен тест, докладът за сеизмична квалификация недвусмислено да доказва запазване на структурна цялост и функционалност по време на и след земетресение с ниво МРЗ на конкретно доставяното за АЕЦ “Козлодуй” оборудване. Независимо дали ще се извършват изпитания за конкретно доставяното оборудване или се използват резултати от по-рано извършени типови изпитания, изпитания за други обекти или изпитания на подобно оборудване документът от проведените изпитания за сеизмична квалификация трябва да включва:

5.2.1. Програма и методика за изпитания, съответстваща на нормативните документи (напр. IEEE 344). Тази програма (спецификация) трябва да представи: информация за конкретното изпитвано оборудване (включително: класификация, идентификация, размери, маса, център на тежестта, монтажни схеми, изпълнявани функции и др.); метод на изпитване (синусоидално въздействие, акселерограма и т.н.); вид на въздействието (едноосно, двуосно или по трите оси едновременно); определяне на сеизмично въздействие (НСР) за мястото на монтиране със съответните коригиращи коефициенти, отчитащи и евентуално взаимовлияние между отделните оси при едноосно или двуосно изпитване; необходими функционални проверки (мониторинг и регистрация на следените параметри преди, по време на и след сеизмичните тестове, критерии за успешност, използвано допълнително оборудване и свързването му, бланки за отразяване на резултатите); точна последователност на изпитване - определяне на собствени честоти по отделните оси; брой и ниво на въздействие (МРЗ, ПЗ), функционални проверки; изисквания за монтаж и свързване; критерии за успешност на изпитанията; начин за оформяне на документацията по изпитанията и т.н.

5.2.2. Отчет от проведени изпитания за доказване на сеизмичната квалификация на оборудването. В отчета трябва да са представени:

- основание и цел на сеизмичните квалификационни изпитвания;
- класификация и параметри на оборудването (ако е необходимо се включват и схеми);
- информация за лабораторията и оборудването, с което се извършва изпитването – местоположение, сертификати, свидетелства за калибриране и др.; описание и схема на тестовата установка;
- нормативни документи, на които съответстват сеизмичните изпитания;
- схема на монтиране на оборудването към сеизмичната платформа (обоснована в Програмата и отговаряща на монтажа на място в АЕЦ);
- използвано тестово сеизмично въздействие (обосновано в Програмата);
- процедура (брой и последователност на извършваните тестове при нива ПЗ и МРЗ за съответните компоненти) и инструментиране на сеизмичните изпитания (схема на разположение на акселерометрите);
- резултати от сеизмичните квалификационни изпитвания - графики на необходим спектър на реагиране (НСР) и изпитвателен спектър на реагиране (ИСР), акселерограми на движението на платформата и на характерни точки от оборудването; стойности на определените резонансни честоти; стойности (графики) на следени параметри за функционалност;
- заключения и препоръки (ако е необходимо) за проведената квалификация;
- снимков материал.

5.2.3. Протокол за функционални изпитания при провеждането на сеизмични тестове – този протокол може да бъде самостоятелен документ или част от “Отчет от проведени изпитания...”. Протоколът съдържа както бланките от Програмата, попълнени с конкретни резултати от всички извършени проверки за функционалност – преди, по време на и след тестовете, така и анализ и оценка на получените резултати за функционалност.

5.3. При извършване на сеизмична квалификация по резултати от по-рано извършени типови динамични изпитания, динамични изпитания за други обекти или динамични изпитания на подобно оборудване е необходимо, **доставчикът/проектантът да представи анализ и даде заключение за:**

5.3.1. Актуалност и приложимост на използваните нормативни документи и съответствието на представения документ за сеизмична квалификация с изискванията им.

5.3.2. Пълнотата (съдържание и обем) на документите от тестове за сеизмична квалификация в съответствие с изискванията в т.5.2 и т.5.3. Документите от тестовете се прилагат **в пълен обем**.

5.3.3. Подобие на тестваното оборудване с конкретно доставяното за АЕЦ “Козлодуй” на базата на изчисления – сравняват се физическите характеристики (размери, маса, център на тежестта, начин на монтаж, собствени честоти, материално затихване и др., имащи отношение към реагирането на оборудването при сеизмично въздействие); идентичност на функциите на оборудването; достатъчност на определените критерии и следени параметри за работоспособност преди, по време на и след сеизмично въздействие.

5.3.4. Приложимостта на сеизмичното въздействие, използвано при теста/изчисленията към мястото на монтаж в АЕЦ “Козлодуй” – сравняват се спектрите на реагиране и акселерограмата за мястото на монтаж в АЕЦ “Козлодуй”, определени по изискванията по-горе (т.3, т.4, и т.5.3.1) със спектъра и акселерограмата, използвани при теста като спектърът на тестовото въздействие трябва да покрива този за мястото на монтаж при едно и също затихване.

5.3.5. Достатъчност на представените доказателства за запазване на функционалност (**конкретни резултати от всички извършени проверки за функционалност** – преди, по време на и след тестовете, както и **анализ и оценка на получените резултати за функционалност**) и цялост по време на и след сеизмично въздействие. Доказателствата не трябва да имат само информативен или декларативен характер.

6. Предоставяне на документацията на Възложителя

6.1. Документите за сеизмична квалификация с анализ на детайлите за закрепване на оборудването и анализа на въздуховодите от система LK21 се предоставят на етап Работен проект.

6.2. При извършване на динамичен тест за целите на конкретния проект – “Спецификацията (*програма и методика*) за сеизмична квалификация се представя на етап Работен проект.

6.3. При сеизмична квалификация на доставяното оборудване чрез динамичен тест, в съответствие с изискванията на т. 4.9 на Инструкция по качество №30.ОУ.ОК.ИК.27 “Класификация на КСК. Степенувани изисквания по осигуряване на качеството.” и на т.3.2.1 на ТЗ – Документите за сеизмична квалификация се изпращат за преглед и съгласуване от цех ХТСиСК за проверка и приемливост на резултатите. Документите за сеизмичната квалификация да се предават поне два месеца преди доставката, с цел осигуряване оперативно време за преглед и внасяне на евентуални корекции в документите (отстраняване на забележки) преди фактическото извършване на доставката на оборудването.

7. Използвани съкращения:

MP3/RLE – Максимално разчетно земетресение;

ПЗ/OBE – Проектно земетресение;

НСР – Необходим спектър на реагиране;

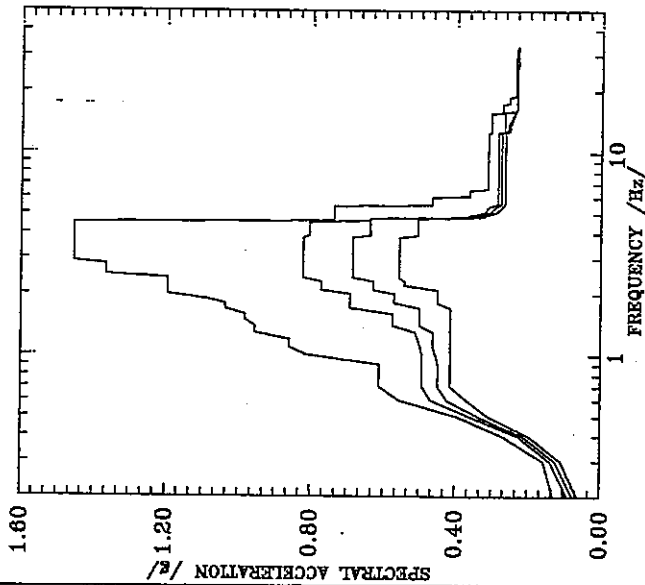
ТЗ – Техническо задание;

ХОГ – Хранилище за отработено гориво.

Заличено на основание ЗЗЛД

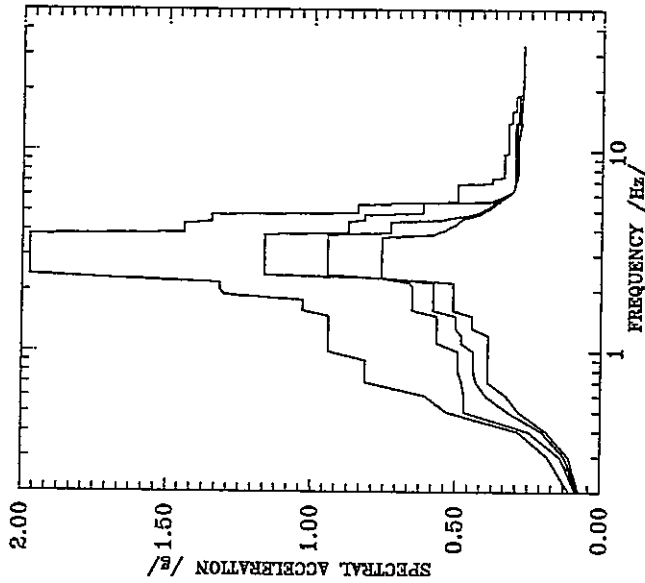
Спектри на реагиране за укрепената конструкция на ХОГ

ACCELERATION RESPONSE SPECTRA
RLE
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 722
COMPONENT L



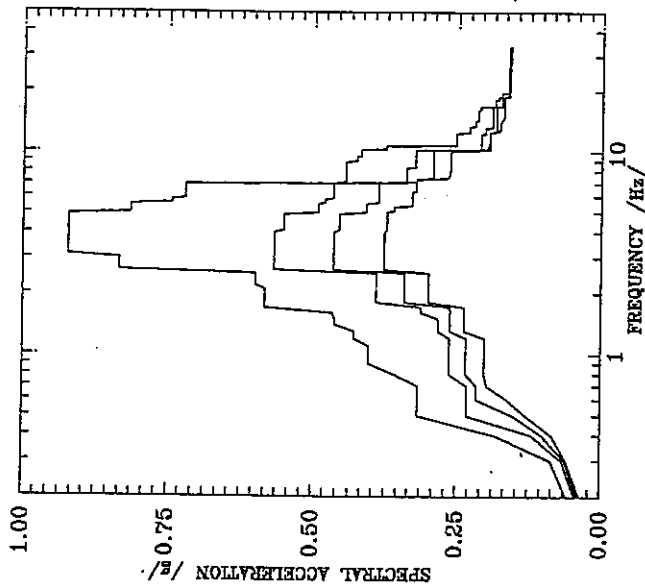
СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 722, КОМПОНЕНТА L

ACCELERATION RESPONSE SPECTRA
RLE
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 722
COMPONENT T



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 722, КОМПОНЕНТА T

ACCELERATION RESPONSE SPECTRA
RLE
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 722
COMPONENT V



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 722, КОМПОНЕНТА V

Фиг.Д.21 Спектри на реагиране. Въздействие -RLE. Възел 722

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-15
ЕТАЖНИ СПЕКТРИ НА РЕАГИРАНЕ - RLE
ВЪЗРА 722

Hz	L			T			V		
	2%	5%	7%	10%	2%	5%	7%	10%	10%
.20	.1272	.0871	.0729	.0619	.1052	.0840	.0781	.0722	.0353
.40	.2685	.2269	.2121	.1963	.2841	.2484	.2018	.1850	.0833
.60	.5578	.4682	.4231	.3686	.6070	.4723	.3966	.3249	.1617
.80	.6118	.4927	.4493	.4153	.8170	.4935	.4413	.3893	.2013
1.00	.8109	.4927	.4564	.4153	.9403	.4935	.4413	.3893	.2013
1.20	.8596	.5053	.4636	.4153	.9403	.5674	.4833	.3893	.2013
1.40	.9558	.5758	.4994	.4153	.9403	.5674	.5041	.4442	.2373
1.60	.9830	.5758	.4994	.4153	1.0330	.6541	.5810	.5116	.2373
1.80	1.0370	.6921	.5709	.4509	1.0330	.6541	.5810	.5116	.2989
2.00	1.1940	.6921	.5709	.4509	1.3180	.6541	.5810	.5116	.2989
2.20	1.1940	.7717	.6304	.5432	1.3180	.6655	.5810	.5116	.2989
2.40	1.1940	.8223	.6855	.5572	1.9730	1.1650	.9463	.7621	.2989
2.60	1.3650	.8223	.6855	.5572	1.9730	1.1650	.9463	.7621	.3773
2.80	1.3650	.8223	.6855	.5572	1.9730	1.1650	.9463	.7621	.3773
3.00	1.4530	.8223	.6855	.5572	1.9730	1.1650	.9463	.7621	.3773
3.20	1.4530	.8223	.6855	.5572	1.9730	1.1650	.9463	.7621	.3773
3.40	1.4530	.8223	.6855	.5572	1.9730	1.1650	.9463	.7621	.3773
3.60	1.4530	.8223	.6855	.5572	1.9730	1.1650	.9463	.7621	.3773
3.80	1.4530	.8223	.6855	.5572	1.9730	1.1650	.9463	.7621	.3773
4.00	1.4530	.8041	.6386	.5063	1.4410	.8769	.7293	.5400	.3773
4.20	1.4530	.8041	.6386	.5063	1.4410	.8769	.7293	.5190	.3724
4.40	1.4530	.8041	.6386	.5063	1.3480	.8769	.7293	.4967	.3724
4.60	.7366	.6386	.6386	.5063	1.3480	.8242	.5271	.4733	.3724
4.80	.7366	.3710	.3473	.3255	1.3480	.8242	.4563	.4299	.3724
5.00	.7366	.3350	.3191	.3002	.8464	.6196	.4173	.4053	.3724
5.20	.7366	.3159	.3007	.2824	.8464	.6196	.3963	.3855	.3608
5.40	.7366	.3074	.2885	.2724	.8464	.6196	.3797	.3688	.3299
5.60	.4659	.2854	.2758	.2665	.4989	.3823	.3685	.3549	.3299
5.80	.4659	.2854	.2755	.2665	.4989	.3581	.3505	.3407	.3299
6.00	.4659	.2854	.2755	.2665	.4989	.3339	.3306	.3259	.3299
6.20	.3637	.2854	.2755	.2665	.4989	.3162	.3129	.3126	.3299
6.40	.3637	.2854	.2755	.2665	.4989	.3050	.3050	.3050	.3212

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-15 – Продължение

Hz	L			T			V					
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
6.60	.3131	.2854	.2755	.2665	.4989	.3027	.3026	.3026	.7204	.4650	.3877	.3212
6.80	.3131	.2854	.2755	.2665	.4989	.3018	.3008	.3002	.7204	.4650	.3877	.3212
7.00	.3131	.2854	.2755	.2665	.3808	.3004	.2982	.2977	.4650	.4650	.3877	.3212
7.20	.3131	.2854	.2755	.2665	.3808	.3004	.2950	.2949	.4455	.3393	.3212	.3212
7.40	.3131	.2854	.2755	.2665	.3397	.3004	.2941	.2923	.4455	.3393	.2923	.2683
7.60	.3131	.2854	.2755	.2665	.3397	.3004	.2941	.2898	.4455	.3393	.2923	.2655
7.80	.3131	.2854	.2755	.2665	.3397	.3004	.2941	.2894	.4455	.3393	.2923	.2650
8.00	.3131	.2854	.2755	.2665	.3397	.3004	.2941	.2894	.4455	.3393	.2923	.2640
8.20	.3131	.2854	.2755	.2665	.3397	.3004	.2941	.2894	.4455	.3393	.2923	.2631
8.40	.3131	.2854	.2755	.2665	.3397	.3004	.2941	.2894	.4455	.3240	.2923	.2631
8.60	.3131	.2854	.2755	.2665	.3397	.3004	.2941	.2894	.4455	.3240	.2923	.2631
8.80	.3131	.2854	.2755	.2665	.3397	.3004	.2941	.2894	.4455	.3240	.2923	.2631
9.00	.3131	.2854	.2755	.2665	.3397	.3004	.2941	.2894	.4262	.3240	.2923	.2631
9.20	.3131	.2854	.2755	.2665	.3397	.3004	.2941	.2894	.4262	.3240	.2923	.2631
9.40	.3131	.2854	.2755	.2665	.3397	.3004	.2941	.2894	.4262	.3240	.2923	.2631
9.60	.3131	.2854	.2755	.2665	.3397	.3004	.2941	.2894	.4262	.3240	.2923	.2631
9.80	.3131	.2854	.2755	.2665	.3251	.3004	.2941	.2894	.4186	.3240	.2923	.2631
10.00	.3131	.2854	.2755	.2665	.3251	.3004	.2941	.2894	.4186	.3240	.2923	.2631
10.20	.3131	.2854	.2755	.2665	.3251	.3004	.2941	.2894	.4186	.3240	.2923	.2631
10.40	.3131	.2854	.2755	.2665	.3251	.3004	.2941	.2894	.4186	.3240	.2923	.1943
10.60	.3131	.2854	.2755	.2665	.3251	.3004	.2941	.2894	.3753	.2106	.1983	.1943
10.80	.3131	.2854	.2755	.2665	.3251	.3004	.2941	.2894	.3753	.2106	.1975	.1943
11.00	.3131	.2854	.2755	.2665	.3251	.3004	.2941	.2894	.2540	.2106	.1965	.1943
11.20	.3131	.2854	.2755	.2665	.3251	.3004	.2941	.2894	.2540	.2106	.1948	.1943
11.40	.3131	.2854	.2755	.2665	.3251	.3004	.2941	.2894	.2540	.2106	.1943	.1943
11.60	.3131	.2854	.2755	.2665	.3251	.3004	.2941	.2890	.2540	.2106	.1943	.1943
11.80	.3131	.2854	.2755	.2665	.3251	.3004	.2941	.2881	.2540	.2106	.1943	.1943
12.00	.3131	.2854	.2755	.2665	.3251	.3004	.2941	.2871	.2540	.2106	.1943	.1943
12.20	.3131	.2854	.2755	.2665	.3251	.3004	.2941	.2863	.2540	.2106	.1943	.1943
12.40	.3131	.2854	.2755	.2665	.3251	.3004	.2941	.2858	.2540	.2106	.1943	.1943
12.60	.3054	.2688	.2667	.2595	.3251	.3004	.2941	.2854	.2540	.2030	.1943	.1943
12.80	.3054	.2688	.2613	.2546	.3251	.3004	.2941	.2848	.2301	.2030	.1845	.1845
13.00	.3054	.2688	.2598	.2531	.3251	.3004	.2941	.2840	.2301	.2030	.1837	.1776
13.20	.3054	.2688	.2593	.2531	.3251	.3004	.2941	.2819	.2301	.1909	.1837	.1770

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-15 – Продължение

Hz	L			T			V		
	2%	5%	7%	2%	5%	7%	2%	5%	7%
13.40	.3054	.2688	.2590	.3251	.3004	.2941	.2206	.1909	.1837
13.60	.3054	.2688	.2578	.3251	.3004	.2941	.2206	.1909	.1837
13.80	.3046	.2688	.2561	.3119	.2906	.2841	.2206	.1909	.1837
14.00	.3046	.2688	.2542	.3119	.2906	.2841	.2206	.1909	.1837
14.20	.3046	.2688	.2523	.3119	.2906	.2841	.2206	.1909	.1837
14.40	.3046	.2688	.2509	.3119	.2906	.2841	.2165	.1909	.1837
14.60	.3046	.2688	.2494	.3119	.2906	.2841	.2165	.1909	.1837
14.80	.3046	.2688	.2478	.3119	.2906	.2841	.2165	.1909	.1837
15.00	.3046	.2688	.2462	.3119	.2906	.2841	.2165	.1909	.1837
15.20	.3046	.2688	.2446	.3119	.2906	.2841	.2165	.1909	.1837
15.40	.3046	.2688	.2430	.3119	.2906	.2841	.2165	.1909	.1837
15.60	.3046	.2688	.2412	.3119	.2906	.2840	.2165	.1909	.1837
15.80	.2738	.2688	.2395	.2979	.2870	.2834	.2165	.1909	.1837
16.00	.2738	.2379	.2379	.2979	.2870	.2826	.2165	.1909	.1837
16.20	.2738	.2365	.2365	.2979	.2870	.2819	.2165	.1909	.1837
16.40	.2738	.2357	.2355	.2979	.2870	.2813	.2119	.1909	.1837
16.60	.2738	.2357	.2350	.2979	.2870	.2806	.2119	.1909	.1837
16.80	.2738	.2357	.2350	.2979	.2870	.2801	.1858	.1737	.1725
17.00	.2738	.2357	.2350	.2979	.2870	.2796	.1858	.1737	.1725
17.20	.2738	.2357	.2350	.2979	.2870	.2792	.1858	.1737	.1725
17.40	.2549	.2357	.2350	.2979	.2870	.2788	.1858	.1737	.1725
17.60	.2549	.2357	.2350	.2979	.2870	.2785	.1858	.1737	.1725
17.80	.2549	.2357	.2350	.2979	.2870	.2782	.1858	.1737	.1725
18.00	.2549	.2357	.2350	.2979	.2870	.2780	.1858	.1737	.1725
18.20	.2549	.2357	.2350	.2979	.2870	.2777	.1803	.1737	.1725
18.40	.2549	.2357	.2350	.2979	.2870	.2774	.1803	.1737	.1725
18.60	.2549	.2357	.2350	.2979	.2870	.2771	.1803	.1737	.1725
18.80	.2549	.2357	.2350	.2870	.2870	.2769	.1747	.1622	.1620
19.00	.2395	.2357	.2350	.2870	.2870	.2766	.1747	.1621	.1619
19.20	.2395	.2357	.2350	.2768	.2764	.2764	.1747	.1620	.1619
19.40	.2395	.2357	.2350	.2768	.2762	.2762	.1747	.1620	.1618
19.60	.2395	.2357	.2350	.2768	.2761	.2761	.1687	.1619	.1617
19.80	.2395	.2357	.2350	.2768	.2760	.2760	.1632	.1618	.1616
20.00	.2395	.2357	.2350	.2768	.2760	.2758	.1632	.1617	.1615

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-15 - Продължение

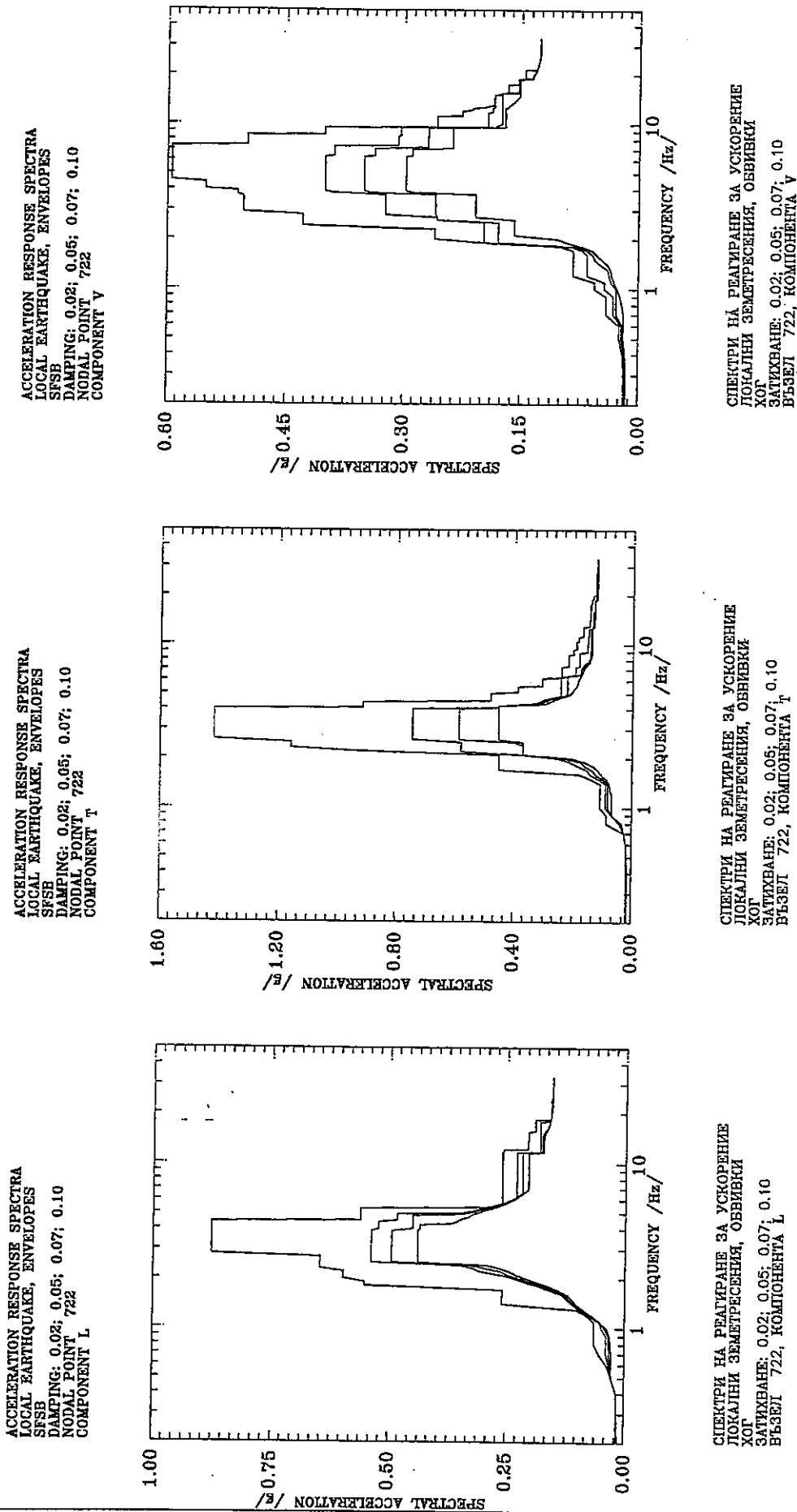
Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
20.20	.2395	.2356	.2349	.2344	.2768	.2758	.2756	.2755	.1632	.1616	.1615	.1613
20.40	.2395	.2353	.2348	.2343	.2768	.2757	.2755	.2754	.1632	.1615	.1614	.1613
20.60	.2395	.2350	.2346	.2342	.2768	.2755	.2753	.2752	.1632	.1614	.1613	.1612
20.80	.2395	.2350	.2344	.2341	.2768	.2752	.2751	.2750	.1632	.1614	.1612	.1612
21.00	.2395	.2350	.2343	.2340	.2768	.2750	.2749	.2749	.1632	.1614	.1612	.1611
21.20	.2395	.2350	.2343	.2339	.2768	.2747	.2747	.2747	.1632	.1614	.1611	.1611
21.40	.2395	.2350	.2343	.2338	.2768	.2746	.2746	.2746	.1632	.1614	.1611	.1610
21.60	.2395	.2350	.2343	.2338	.2768	.2744	.2744	.2744	.1632	.1614	.1611	.1610
21.80	.2395	.2350	.2343	.2338	.2768	.2744	.2743	.2743	.1632	.1614	.1611	.1610
22.00	.2395	.2350	.2343	.2338	.2768	.2744	.2742	.2742	.1632	.1614	.1611	.1609
22.20	.2395	.2350	.2343	.2338	.2768	.2744	.2741	.2741	.1632	.1614	.1611	.1609
22.40	.2395	.2350	.2343	.2338	.2768	.2744	.2740	.2740	.1632	.1614	.1610	.1608
22.60	.2395	.2350	.2343	.2338	.2768	.2744	.2739	.2739	.1628	.1612	.1610	.1608
22.80	.2395	.2350	.2343	.2338	.2768	.2744	.2739	.2738	.1626	.1611	.1609	.1607
23.00	.2395	.2350	.2343	.2338	.2768	.2744	.2739	.2737	.1626	.1609	.1607	.1606
23.20	.2395	.2350	.2343	.2338	.2768	.2744	.2739	.2737	.1626	.1607	.1606	.1606
23.40	.2395	.2350	.2343	.2338	.2768	.2744	.2739	.2737	.1626	.1607	.1605	.1605
23.60	.2395	.2350	.2343	.2338	.2768	.2744	.2739	.2736	.1626	.1607	.1604	.1604
23.80	.2395	.2350	.2343	.2338	.2768	.2744	.2739	.2736	.1626	.1607	.1604	.1604
24.00	.2395	.2350	.2343	.2337	.2768	.2744	.2739	.2736	.1626	.1607	.1604	.1603
24.20	.2395	.2348	.2342	.2337	.2768	.2744	.2739	.2736	.1626	.1607	.1604	.1603
24.40	.2395	.2346	.2342	.2337	.2768	.2744	.2739	.2736	.1626	.1607	.1604	.1603
24.60	.2395	.2344	.2341	.2336	.2768	.2744	.2739	.2736	.1626	.1607	.1604	.1603
24.80	.2395	.2343	.2340	.2336	.2768	.2744	.2739	.2736	.1626	.1607	.1604	.1603
25.00	.2395	.2342	.2339	.2335	.2768	.2744	.2739	.2735	.1626	.1607	.1604	.1603
25.20	.2395	.2340	.2337	.2334	.2754	.2744	.2739	.2735	.1626	.1607	.1604	.1603
25.40	.2395	.2339	.2336	.2333	.2754	.2744	.2739	.2735	.1626	.1607	.1604	.1603
25.60	.2395	.2339	.2335	.2332	.2754	.2744	.2739	.2735	.1626	.1607	.1604	.1603
25.80	.2395	.2339	.2334	.2331	.2754	.2744	.2739	.2735	.1626	.1607	.1604	.1603
26.00	.2395	.2338	.2333	.2330	.2754	.2744	.2739	.2735	.1622	.1607	.1604	.1602
26.20	.2395	.2337	.2332	.2329	.2754	.2744	.2739	.2735	.1616	.1607	.1604	.1602
26.40	.2395	.2334	.2330	.2328	.2754	.2744	.2739	.2735	.1616	.1607	.1604	.1602
26.60	.2395	.2330	.2329	.2327	.2754	.2744	.2739	.2735	.1616	.1606	.1604	.1602
26.80	.2395	.2327	.2327	.2326	.2754	.2744	.2739	.2735	.1616	.1606	.1603	.1602

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-15 – Продължение

Hz	L				T				V			
	28	58	78	108	28	58	78	108	28	58	78	108
27.00	.2395	.2325	.2325	.2325	.2754	.2744	.2739	.2735	.1616	.1605	.1603	.1601
27.20	.2395	.2324	.2324	.2324	.2754	.2744	.2739	.2735	.1616	.1604	.1602	.1601
27.40	.2395	.2324	.2324	.2324	.2754	.2744	.2739	.2735	.1616	.1604	.1602	.1601
27.60	.2395	.2324	.2323	.2323	.2754	.2744	.2739	.2735	.1616	.1602	.1601	.1600
27.80	.2395	.2324	.2322	.2322	.2754	.2744	.2739	.2735	.1616	.1601	.1601	.1600
28.00	.2395	.2324	.2322	.2322	.2754	.2744	.2739	.2735	.1616	.1601	.1600	.1600
28.20	.2395	.2324	.2322	.2322	.2754	.2744	.2739	.2735	.1616	.1601	.1600	.1600
28.40	.2395	.2324	.2322	.2321	.2754	.2744	.2739	.2735	.1616	.1601	.1600	.1599
28.60	.2395	.2324	.2322	.2321	.2754	.2744	.2739	.2735	.1616	.1601	.1600	.1599
28.80	.2395	.2324	.2322	.2321	.2754	.2744	.2739	.2735	.1616	.1601	.1600	.1599
29.00	.2395	.2324	.2322	.2321	.2754	.2744	.2739	.2735	.1616	.1601	.1600	.1599
29.20	.2395	.2324	.2322	.2321	.2754	.2744	.2739	.2735	.1616	.1601	.1600	.1599
29.40	.2369	.2324	.2322	.2321	.2754	.2744	.2739	.2735	.1616	.1601	.1600	.1599
29.60	.2369	.2324	.2322	.2321	.2754	.2744	.2739	.2735	.1616	.1601	.1600	.1599
29.80	.2369	.2324	.2322	.2321	.2754	.2744	.2739	.2735	.1616	.1601	.1600	.1599
30.00	.2369	.2324	.2322	.2321	.2754	.2744	.2739	.2735	.1616	.1601	.1600	.1599
30.20	.2369	.2324	.2322	.2321	.2754	.2744	.2739	.2735	.1616	.1601	.1600	.1599
30.40	.2369	.2324	.2322	.2321	.2754	.2744	.2739	.2735	.1616	.1601	.1600	.1599
30.60	.2369	.2324	.2322	.2321	.2754	.2744	.2739	.2735	.1616	.1601	.1600	.1599
30.80	.2369	.2324	.2322	.2321	.2750	.2744	.2739	.2735	.1616	.1601	.1600	.1599
31.00	.2369	.2324	.2322	.2321	.2750	.2744	.2739	.2735	.1616	.1601	.1600	.1599
31.20	.2369	.2324	.2322	.2321	.2750	.2744	.2739	.2735	.1616	.1601	.1600	.1599
31.40	.2369	.2324	.2322	.2321	.2750	.2744	.2739	.2735	.1616	.1601	.1600	.1599
31.60	.2369	.2324	.2322	.2321	.2750	.2744	.2739	.2735	.1616	.1601	.1600	.1599
31.80	.2369	.2324	.2322	.2321	.2750	.2744	.2739	.2735	.1616	.1601	.1600	.1599
32.00	.2369	.2324	.2322	.2321	.2750	.2744	.2739	.2735	.1616	.1601	.1600	.1599
32.20	.2369	.2324	.2322	.2321	.2750	.2744	.2739	.2735	.1616	.1601	.1600	.1599
32.40	.2337	.2324	.2322	.2321	.2750	.2744	.2739	.2735	.1616	.1601	.1600	.1599
32.60	.2337	.2324	.2322	.2321	.2750	.2744	.2739	.2735	.1616	.1601	.1600	.1599
32.80	.2337	.2324	.2322	.2321	.2750	.2744	.2739	.2735	.1616	.1601	.1600	.1599
33.00	.2337	.2324	.2322	.2321	.2750	.2744	.2739	.2735	.1616	.1601	.1600	.1599
33.20	.2337	.2324	.2322	.2321	.2750	.2744	.2739	.2735	.1616	.1601	.1600	.1599

Спектри на реагиране за укрепената конструкция на ХОГ



Фиг.Д.40 Спектри на реагиране. Въздействие - локални земетр. Възел 722

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-34
БТАЖНИ СПЕКТРИ НА РЕАГИРАНЕ - ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ
ВЪЗЕА 722

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
.20	.0167	.0155	.0148	.0140	.0185	.0172	.0165	.0155	.0187	.0172	.0163	.0154
.40	.0174	.0170	.0170	.0170	.0185	.0172	.0165	.0155	.0201	.0184	.0175	.0167
.60	.0376	.0333	.0311	.0285	.0209	.0200	.0197	.0197	.0243	.0215	.0202	.0188
.80	.0654	.0394	.0331	.0306	.0852	.0415	.0380	.0344	.0406	.0318	.0279	.0207
1.00	.0654	.0488	.0430	.0387	.1077	.0890	.0831	.0677	.0554	.0427	.0279	.0271
1.20	.0807	.0745	.0728	.0699	.1077	.0890	.0831	.0677	.0831	.0646	.0375	.0340
1.40	.2599	.1116	.1074	.1024	.1077	.0890	.0831	.0773	.0831	.0646	.0480	.0395
1.60	.2599	.1330	.1267	.1215	.1812	.1428	.1240	.1055	.0831	.0646	.0573	.0529
1.80	.5529	.1858	.1777	.1654	.4508	.1863	.1603	.1323	.1001	.0854	.0795	.0713
2.00	.5984	.2355	.2240	.2105	.4508	.2566	.2330	.2089	.2594	.1972	.1782	.1037
2.20	.5984	.3081	.2644	.2464	.8772	.5805	.3702	.3702	.2594	.1972	.1782	.1581
2.40	.6476	.3523	.3284	.2941	1.1590	.5805	.3702	.3702	.4279	.1972	.1782	.1581
2.60	.6476	.5387	.4950	.4396	1.4180	.7459	.5874	.4529	.4279	.2569	.2569	.1581
2.80	.8765	.5387	.4950	.4396	1.4180	.7459	.5874	.4529	.4279	.3231	.2587	.2074
3.00	.8765	.5387	.4950	.4396	1.4180	.7459	.5874	.4529	.5029	.3231	.2587	.2074
3.20	.8765	.5387	.4950	.4396	1.4180	.7459	.5874	.4529	.5029	.3231	.2587	.2074
3.40	.8765	.5387	.4950	.4396	1.4180	.7459	.5874	.4529	.5029	.3231	.2587	.2074
3.60	.8765	.5387	.4950	.4396	1.4180	.7459	.5874	.4529	.5029	.3231	.2587	.2074
3.80	.8765	.5387	.4950	.4396	1.4180	.7459	.5874	.4529	.5108	.3923	.3439	.2877
4.00	.8765	.5223	.4501	.4347	1.4180	.7459	.5874	.4529	.5510	.3994	.3501	.2970
4.20	.8765	.5223	.4501	.4347	.9140	.4529	.4529	.4529	.5510	.3994	.3501	.2970
4.40	.8765	.5223	.4501	.3572	.9140	.3209	.3079	.2859	.5510	.3994	.3501	.2970
4.60	.5616	.4825	.4501	.3433	.4790	.2972	.2792	.2607	.5946	.3994	.3501	.2970
4.80	.5616	.4825	.4501	.3268	.4790	.2516	.2402	.2328	.5946	.3994	.3501	.2970
5.00	.5616	.3449	.3305	.3115	.4790	.2441	.2220	.2079	.5946	.3994	.3501	.2970
5.20	.5616	.3133	.3049	.2927	.3889	.2441	.2220	.2014	.5946	.3994	.3501	.2970
5.40	.2970	.2884	.2821	.2743	.3889	.2441	.2220	.1955	.5946	.3994	.3501	.2970
5.60	.2714	.2684	.2650	.2590	.3065	.2441	.2220	.1883	.5946	.3994	.3501	.2970
5.80	.2606	.2530	.2511	.2473	.3065	.2441	.2220	.1857	.5946	.3994	.3501	.2970
6.00	.2606	.2412	.2400	.2374	.3065	.2441	.2220	.1832	.5946	.3994	.3501	.2970
6.20	.2606	.2319	.2309	.2290	.3065	.2441	.2220	.1797	.5946	.3994	.3501	.2970
6.40	.2606	.2305	.2235	.2219	.2402	.2220	.2220	.1758	.5946	.3884	.3370	.2890

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-34 – Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
6.60	.2606	.2305	.2178	.2155	.2402	.1947	.1761	.1720	.5946	.3884	.3370	.2890
6.80	.2606	.2305	.2178	.2096	.2402	.1947	.1746	.1692	.5946	.3884	.3370	.2890
7.00	.2606	.2305	.2178	.2062	.2402	.1947	.1743	.1673	.5946	.3884	.3370	.2890
7.20	.2606	.2305	.2178	.2056	.2402	.1947	.1728	.1641	.5946	.3884	.2691	.2379
7.40	.2606	.2305	.2178	.2056	.2170	.1810	.1677	.1590	.4992	.3073	.2691	.2379
7.60	.2606	.2305	.2178	.2056	.2170	.1810	.1630	.1532	.4992	.3073	.2691	.2379
7.80	.2606	.2305	.2178	.2056	.2170	.1810	.1540	.1473	.4992	.3073	.2691	.2379
8.00	.2606	.2305	.2178	.2056	.2170	.1810	.1474	.1455	.4992	.3073	.2691	.2379
8.20	.2606	.2305	.2178	.2056	.2170	.1810	.1445	.1434	.4992	.3073	.2691	.2379
8.40	.2606	.2305	.2178	.2056	.2170	.1810	.1440	.1412	.4992	.3073	.2684	.2379
8.60	.2606	.2305	.2178	.2056	.2170	.1810	.1440	.1401	.4011	.3037	.2684	.2379
8.80	.2606	.2305	.2178	.2056	.2008	.1810	.1440	.1401	.4011	.3037	.2684	.2379
9.00	.2606	.2305	.2178	.2056	.2008	.1538	.1440	.1401	.4011	.3037	.2684	.2379
9.20	.2606	.2305	.2178	.2056	.2008	.1538	.1428	.1401	.4011	.3037	.2684	.2379
9.40	.2606	.2305	.2178	.2056	.1905	.1538	.1428	.1401	.4011	.3037	.2684	.2379
9.60	.2606	.2305	.2178	.2056	.1905	.1538	.1428	.1401	.2575	.1927	.1822	.1706
9.80	.2606	.2305	.2178	.2056	.1905	.1538	.1428	.1401	.2575	.1927	.1787	.1703
10.00	.2606	.2305	.2178	.2056	.1905	.1538	.1428	.1401	.2575	.1927	.1752	.1700
10.20	.2606	.2305	.2178	.2056	.1905	.1538	.1428	.1401	.2575	.1927	.1752	.1700
10.40	.2606	.2305	.2178	.2056	.1905	.1538	.1428	.1401	.2575	.1927	.1752	.1700
10.60	.2606	.2305	.2178	.2056	.1829	.1538	.1428	.1401	.2575	.1927	.1752	.1700
10.80	.2606	.2305	.2178	.2056	.1829	.1538	.1428	.1401	.2575	.1927	.1752	.1700
11.00	.2606	.2305	.2178	.2056	.1829	.1534	.1428	.1397	.2575	.1927	.1752	.1700
11.20	.2606	.2305	.2178	.2056	.1704	.1498	.1428	.1397	.2254	.1927	.1752	.1700
11.40	.2606	.2305	.2178	.2056	.1704	.1498	.1428	.1397	.2254	.1927	.1752	.1700
11.60	.2606	.2305	.2178	.1743	.1704	.1498	.1422	.1397	.2254	.1927	.1752	.1700
11.80	.2582	.1819	.1775	.1743	.1704	.1498	.1422	.1392	.2254	.1867	.1752	.1700
12.00	.2582	.1819	.1775	.1743	.1704	.1498	.1422	.1392	.2167	.1867	.1752	.1700
12.20	.2084	.1819	.1775	.1743	.1704	.1498	.1422	.1392	.2123	.1867	.1752	.1700
12.40	.2084	.1819	.1775	.1743	.1704	.1498	.1422	.1392	.2114	.1867	.1752	.1700
12.60	.2084	.1819	.1775	.1743	.1704	.1392	.1392	.1392	.1975	.1841	.1749	.1668
12.80	.2084	.1819	.1775	.1743	.1704	.1355	.1349	.1329	.1909	.1841	.1749	.1655
13.00	.2084	.1819	.1775	.1743	.1482	.1355	.1343	.1329	.1853	.1841	.1749	.1639
13.20	.2084	.1819	.1775	.1743	.1482	.1355	.1342	.1329	.1853	.1841	.1749	.1621

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-34 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
13.40	.2084	.1819	.1775	.1743	.1482	.1355	.1342	.1328	.1853	.1841	.1749	.1604
13.60	.2084	.1819	.1775	.1743	.1482	.1355	.1342	.1327	.1853	.1841	.1749	.1589
13.80	.2060	.1819	.1775	.1743	.1482	.1354	.1339	.1324	.1853	.1841	.1749	.1575
14.00	.2060	.1819	.1775	.1742	.1482	.1354	.1335	.1320	.1853	.1841	.1749	.1564
14.20	.2060	.1819	.1775	.1741	.1445	.1354	.1328	.1316	.1853	.1841	.1749	.1553
14.40	.2060	.1819	.1774	.1736	.1444	.1354	.1321	.1311	.1841	.1841	.1749	.1543
14.60	.2060	.1819	.1766	.1730	.1444	.1354	.1313	.1306	.1841	.1841	.1749	.1534
14.80	.2060	.1819	.1763	.1725	.1444	.1354	.1307	.1301	.1841	.1841	.1749	.1525
15.00	.2060	.1819	.1758	.1721	.1444	.1354	.1303	.1297	.1841	.1841	.1749	.1520
15.20	.2060	.1819	.1747	.1715	.1444	.1354	.1303	.1297	.1749	.1749	.1749	.1520
15.40	.2060	.1819	.1732	.1707	.1444	.1354	.1303	.1297	.1670	.1555	.1541	.1520
15.60	.1929	.1819	.1716	.1697	.1444	.1354	.1303	.1297	.1670	.1543	.1541	.1520
15.80	.1929	.1819	.1700	.1688	.1444	.1354	.1303	.1297	.1670	.1541	.1541	.1520
16.00	.1929	.1813	.1686	.1679	.1444	.1308	.1303	.1297	.1670	.1541	.1541	.1520
16.20	.1929	.1813	.1674	.1670	.1444	.1308	.1303	.1297	.1670	.1541	.1541	.1520
16.40	.1929	.1813	.1664	.1662	.1444	.1308	.1303	.1297	.1670	.1541	.1541	.1520
16.60	.1929	.1813	.1656	.1654	.1444	.1308	.1303	.1297	.1670	.1541	.1541	.1520
16.80	.1929	.1813	.1648	.1647	.1444	.1308	.1303	.1297	.1670	.1541	.1541	.1520
17.00	.1929	.1813	.1641	.1641	.1444	.1308	.1303	.1297	.1670	.1541	.1541	.1520
17.20	.1929	.1813	.1635	.1635	.1444	.1308	.1303	.1297	.1670	.1541	.1541	.1520
17.40	.1929	.1813	.1629	.1635	.1444	.1308	.1303	.1297	.1670	.1541	.1541	.1520
17.60	.1929	.1813	.1624	.1629	.1444	.1308	.1303	.1297	.1541	.1541	.1541	.1520
17.80	.1929	.1813	.1620	.1620	.1444	.1308	.1303	.1297	.1541	.1541	.1541	.1520
18.00	.1927	.1615	.1615	.1615	.1408	.1308	.1303	.1297	.1541	.1541	.1541	.1520
18.20	.1927	.1612	.1612	.1612	.1408	.1308	.1303	.1297	.1541	.1541	.1541	.1520
18.40	.1608	.1608	.1608	.1608	.1408	.1308	.1303	.1297	.1541	.1541	.1541	.1520
18.60	.1605	.1605	.1605	.1605	.1408	.1308	.1303	.1297	.1541	.1541	.1541	.1520
18.80	.1602	.1602	.1602	.1602	.1408	.1249	.1244	.1239	.1453	.1376	.1375	.1371
19.00	.1599	.1599	.1599	.1599	.1408	.1249	.1243	.1238	.1453	.1372	.1370	.1367
19.20	.1599	.1597	.1597	.1597	.1361	.1247	.1241	.1236	.1453	.1369	.1366	.1362
19.40	.1599	.1595	.1595	.1595	.1361	.1245	.1238	.1235	.1453	.1365	.1362	.1357
19.60	.1599	.1593	.1593	.1593	.1361	.1242	.1236	.1234	.1453	.1361	.1357	.1353
19.80	.1599	.1591	.1591	.1591	.1361	.1238	.1233	.1233	.1453	.1357	.1353	.1349
20.00	.1599	.1590	.1590	.1590	.1361	.1233	.1232	.1232	.1453	.1352	.1348	.1344

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-34 -- Продължение

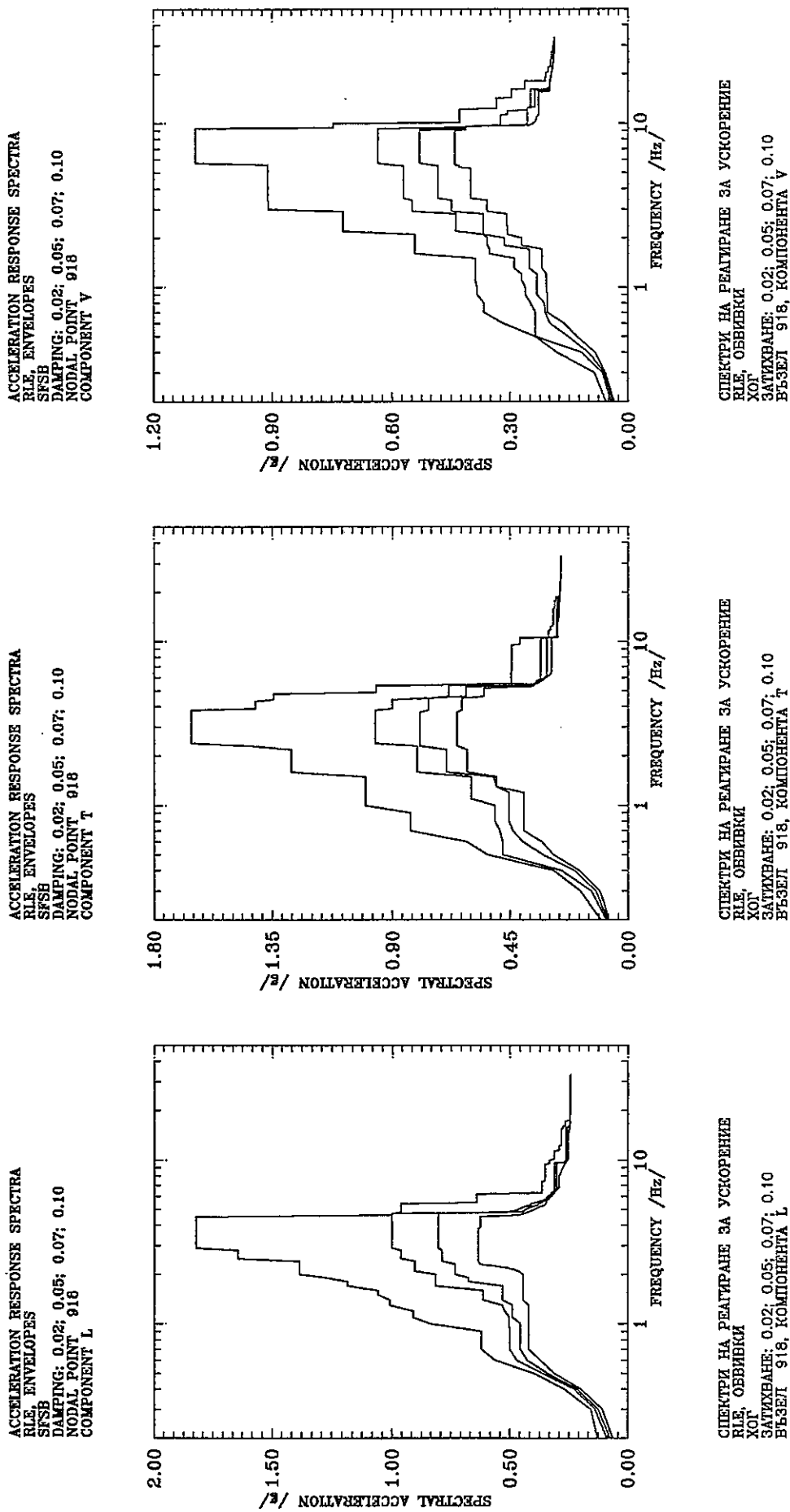
Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
20.20	.1599	.1588	.1588	.1588	.1268	.1229	.1229	.1229	.1453	.1347	.1343	.1340
20.40	.1599	.1588	.1587	.1587	.1268	.1228	.1228	.1228	.1453	.1341	.1339	.1336
20.60	.1599	.1588	.1586	.1585	.1268	.1228	.1228	.1228	.1453	.1336	.1334	.1331
20.80	.1599	.1587	.1585	.1584	.1268	.1227	.1227	.1227	.1453	.1331	.1329	.1327
21.00	.1599	.1586	.1583	.1582	.1268	.1226	.1226	.1226	.1453	.1326	.1325	.1323
21.20	.1598	.1584	.1581	.1580	.1268	.1226	.1225	.1225	.1453	.1321	.1320	.1319
21.40	.1595	.1581	.1579	.1579	.1268	.1226	.1225	.1225	.1319	.1316	.1316	.1316
21.60	.1591	.1577	.1577	.1577	.1268	.1226	.1225	.1224	.1312	.1312	.1312	.1312
21.80	.1591	.1576	.1576	.1576	.1268	.1225	.1224	.1223	.1309	.1309	.1309	.1309
22.00	.1591	.1574	.1574	.1574	.1268	.1225	.1223	.1223	.1306	.1306	.1306	.1306
22.20	.1591	.1573	.1573	.1573	.1268	.1224	.1223	.1222	.1304	.1304	.1304	.1304
22.40	.1591	.1572	.1572	.1572	.1268	.1223	.1222	.1221	.1301	.1301	.1301	.1301
22.60	.1591	.1571	.1571	.1571	.1268	.1222	.1221	.1221	.1299	.1299	.1299	.1299
22.80	.1591	.1571	.1570	.1570	.1268	.1222	.1220	.1220	.1297	.1297	.1297	.1297
23.00	.1591	.1571	.1569	.1569	.1268	.1222	.1219	.1219	.1295	.1295	.1295	.1295
23.20	.1591	.1571	.1569	.1569	.1268	.1222	.1219	.1218	.1293	.1293	.1293	.1293
23.40	.1591	.1571	.1568	.1568	.1268	.1222	.1219	.1218	.1291	.1291	.1291	.1291
23.60	.1591	.1571	.1567	.1567	.1268	.1222	.1219	.1217	.1289	.1289	.1289	.1289
23.80	.1591	.1571	.1567	.1566	.1268	.1222	.1219	.1217	.1288	.1288	.1288	.1288
24.00	.1590	.1571	.1566	.1565	.1268	.1222	.1219	.1217	.1287	.1286	.1286	.1286
24.20	.1585	.1571	.1564	.1564	.1266	.1222	.1219	.1217	.1285	.1285	.1285	.1285
24.40	.1582	.1571	.1563	.1563	.1266	.1222	.1219	.1217	.1283	.1283	.1283	.1283
24.60	.1577	.1571	.1562	.1562	.1266	.1222	.1219	.1217	.1281	.1281	.1281	.1281
24.80	.1572	.1571	.1561	.1561	.1266	.1222	.1219	.1217	.1280	.1280	.1280	.1280
25.00	.1571	.1571	.1561	.1561	.1266	.1222	.1219	.1217	.1279	.1279	.1279	.1279
25.20	.1571	.1571	.1561	.1561	.1266	.1222	.1219	.1217	.1277	.1277	.1277	.1277
25.40	.1571	.1571	.1561	.1561	.1266	.1222	.1219	.1217	.1276	.1276	.1276	.1276
25.60	.1571	.1571	.1561	.1561	.1266	.1222	.1219	.1217	.1275	.1275	.1275	.1275
25.80	.1571	.1571	.1561	.1561	.1266	.1222	.1219	.1217	.1273	.1273	.1273	.1273
26.00	.1571	.1571	.1561	.1561	.1266	.1222	.1219	.1217	.1272	.1272	.1272	.1272
26.20	.1571	.1571	.1561	.1561	.1266	.1222	.1219	.1217	.1271	.1270	.1270	.1270
26.40	.1571	.1571	.1561	.1561	.1266	.1222	.1219	.1217	.1271	.1269	.1269	.1269
26.60	.1571	.1571	.1561	.1561	.1266	.1222	.1219	.1217	.1269	.1268	.1268	.1268
26.80	.1571	.1571	.1561	.1561	.1266	.1222	.1219	.1217	.1266	.1266	.1266	.1266

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-34 – Продължение

Hz	L			T			V		
	2%	5%	7%	10%	2%	5%	7%	10%	
27.00	.1571	.1571	.1561	.1561	.1266	.1222	.1219	.1217	
27.20	.1571	.1571	.1561	.1561	.1266	.1222	.1219	.1217	
27.40	.1571	.1571	.1561	.1561	.1248	.1222	.1219	.1217	
27.60	.1571	.1571	.1561	.1561	.1248	.1222	.1219	.1217	
27.80	.1571	.1571	.1561	.1561	.1248	.1222	.1219	.1217	
28.00	.1571	.1571	.1561	.1561	.1248	.1222	.1219	.1217	
28.20	.1571	.1571	.1561	.1561	.1248	.1222	.1219	.1217	
28.40	.1571	.1571	.1561	.1561	.1248	.1222	.1219	.1217	
28.60	.1571	.1571	.1561	.1561	.1248	.1222	.1219	.1217	
28.80	.1571	.1571	.1561	.1561	.1248	.1222	.1219	.1217	
29.00	.1571	.1571	.1561	.1561	.1228	.1222	.1219	.1217	
29.20	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
29.40	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
29.60	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
29.80	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
30.00	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
30.20	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
30.40	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
30.60	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
30.80	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
31.00	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
31.20	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
31.40	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
31.60	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
31.80	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
32.00	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
32.20	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
32.40	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
32.60	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
32.80	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
33.00	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	
33.20	.1561	.1561	.1561	.1561	.1228	.1222	.1219	.1217	

Спектри на реагиране за укрепената конструкция на ХОГ



Фиг.П1-9 Спектри на реагиране.Въздействие - RLE. Възел 918

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-9
ЕТАЖНИ СПЕКТРИ НА РЕАГИРАНЕ - RLE
ВЪЗЕЛ 918

Hz	L			T			V					
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
.20	.1273	.0872	.0729	.0620	.1055	.0843	.0781	.0722	.0568	.0427	.0383	.0356
.30	.1565	.1375	.1242	.1070	.1820	.1413	.1227	.1096	.0853	.0661	.0606	.0576
.40	.2695	.2279	.2136	.1976	.2853	.2538	.2040	.1874	.1823	.1196	.1015	.0844
.50	.3990	.3627	.3405	.3117	.5367	.4788	.3245	.2852	.2369	.2369	.1522	.1295
.60	.5623	.4721	.4266	.3716	.6173	.4788	.4029	.3304	.3186	.2369	.1991	.1639
.70	.6214	.5016	.4566	.4213	.8302	.4909	.4403	.3991	.3679	.2369	.2105	.2059
.80	.6214	.5016	.4566	.4213	.8302	.5088	.4544	.3991	.3679	.2490	.2143	.2059
.90	.6214	.5016	.4566	.4213	.8302	.5088	.4544	.3991	.3849	.2611	.2331	.2059
1.00	.8382	.5022	.4566	.4213	1.0010	.5088	.4544	.3991	.3890	.2611	.2331	.2088
1.10	.9096	.5028	.4892	.4213	1.0010	.5987	.4544	.3991	.3890	.2719	.2331	.2088
1.20	.9096	.5229	.4892	.4213	1.0010	.5987	.4544	.3991	.3890	.2719	.2331	.2088
1.30	1.0100	.5331	.4892	.4213	1.0010	.5987	.5019	.5019	.3890	.2898	.2510	.2193
1.40	1.0100	.6150	.5328	.4452	1.0010	.5987	.5088	.5019	.3890	.2898	.2510	.2193
1.50	1.0590	.6150	.5328	.4452	1.0010	.5987	.5156	.5019	.3890	.2898	.2510	.2193
1.60	1.0590	.6150	.5328	.4452	1.2780	.8055	.6928	.6149	.5419	.3528	.2510	.2193
1.70	1.1860	.8153	.5328	.4452	1.2780	.8055	.6928	.6149	.5419	.3584	.3148	.2717
1.80	1.1860	.8153	.6766	.4452	1.2780	.8055	.6928	.6149	.5419	.3584	.3148	.2717
1.90	1.2650	.8153	.6766	.4452	1.2780	.8055	.6928	.6149	.5419	.3685	.3685	.3066
2.00	1.3830	.8153	.7319	.4452	1.2780	.8055	.6928	.6149	.5419	.3685	.3685	.3066
2.10	1.3830	.9023	.7319	.4623	1.2780	.8055	.6928	.6149	.7215	.4380	.3685	.3066
2.20	1.3830	.9023	.7319	.5149	1.2780	.8055	.6928	.6149	.7215	.4380	.3685	.3090
2.30	1.3830	.9023	.7319	.6256	1.4340	.8055	.7946	.6521	.7215	.4380	.3685	.3090
2.40	1.3830	.9023	.7881	.6347	1.6580	.9645	.7946	.6521	.7215	.4380	.3685	.3090
2.50	1.6440	.9642	.7881	.6347	1.6580	.9645	.7946	.6521	.7215	.4380	.3685	.3090
2.60	1.6440	.9642	.7881	.6347	1.6580	.9645	.7946	.6521	.7215	.4380	.3685	.3090
2.70	1.6440	.9642	.7881	.6347	1.6580	.9645	.7946	.6521	.7215	.4380	.3685	.3090
2.80	1.6440	.9642	.7881	.6347	1.6580	.9645	.7946	.6521	.7215	.4380	.3685	.3090
2.90	1.8210	1.0010	.8023	.6347	1.6580	.9645	.7946	.6521	.9091	.5490	.4479	.3593
3.00	1.8210	1.0010	.8023	.6347	1.6580	.9645	.7946	.6521	.9091	.5490	.4479	.3593
3.10	1.8210	1.0010	.8023	.6347	1.6580	.9645	.7946	.6521	.9091	.5490	.4479	.3593
3.20	1.8210	1.0010	.8023	.6347	1.6580	.9645	.7946	.6521	.9091	.5490	.4479	.3593
3.30	1.8210	1.0010	.8023	.6347	1.6580	.9645	.7946	.6521	.9091	.5490	.4479	.3593
3.40	1.8210	1.0010	.8023	.6347	1.6580	.9645	.7946	.6521	.9103	.5490	.4479	.3593

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-9 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
3.50	1.8210	1.0010	.8023	.6347	1.6580	.9645	.7946	.6521	.9103	.5709	.4830	.4004
3.60	1.8210	1.0010	.8023	.6347	1.6580	.9645	.7946	.6521	.9103	.5709	.4830	.4004
3.70	1.8210	1.0010	.8023	.6347	1.6580	.9645	.7946	.6521	.9103	.5709	.4830	.4004
3.80	1.8210	1.0010	.8023	.6347	1.6580	.9645	.7614	.6351	.9103	.5709	.4830	.4004
3.90	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
4.00	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
4.10	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
4.20	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
4.30	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
4.40	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
4.50	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
4.60	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
4.70	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
4.80	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
4.90	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
5.00	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
5.10	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
5.20	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
5.30	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
5.40	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
5.50	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
5.60	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
5.70	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
5.80	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
5.90	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
6.00	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
6.10	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
6.20	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
6.30	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
6.40	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
6.50	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
6.60	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
6.70	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004
6.80	1.8210	1.0010	.8023	.6253	1.4140	.9002	.7614	.6351	.9103	.5709	.4830	.4004

Спектри на реазиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-9 – Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
6.90	.3644	.3114	.3019	.2924	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
7.00	.3644	.3114	.3019	.2924	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
7.10	.3644	.3114	.3019	.2924	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
7.20	.3644	.3114	.3019	.2924	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
7.30	.3644	.3114	.3019	.2924	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
7.40	.3644	.3114	.3019	.2924	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
7.50	.3523	.3114	.3019	.2924	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
7.60	.3523	.3114	.3019	.2924	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
7.70	.3523	.3114	.3019	.2924	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
7.80	.3523	.3114	.3019	.2924	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
7.90	.3523	.3114	.3019	.2919	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
8.00	.3523	.3114	.3019	.2909	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
8.10	.3523	.3114	.3019	.2895	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
8.20	.3523	.3114	.3019	.2877	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
8.30	.3523	.3114	.3019	.2857	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
8.40	.3523	.3114	.3019	.2844	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
8.50	.3523	.3114	.3019	.2834	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
8.60	.3523	.3114	.3019	.2822	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
8.70	.3523	.3114	.3019	.2809	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
8.80	.3523	.3114	.3019	.2795	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
8.90	.3523	.3114	.3019	.2780	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
9.00	.3523	.3114	.3019	.2765	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4400
9.10	.3523	.3114	.3019	.2748	.4445	.3352	.3116	.2934	1.0930	.6359	.5300	.4127
9.20	.3523	.3114	.3019	.2731	.4445	.3352	.3116	.2934	1.0930	.6359	.4127	.4127
9.30	.3523	.3114	.3019	.2712	.4445	.3352	.3116	.2934	1.0930	.6359	.4127	.4127
9.40	.3523	.3114	.3019	.2693	.4445	.3352	.3116	.2934	.7463	.4127	.4127	.4127
9.50	.3348	.3114	.3019	.2672	.4445	.3352	.3116	.2934	.7463	.4127	.4127	.4127
9.60	.3348	.3114	.3019	.2651	.4135	.3339	.3116	.2934	.7463	.4127	.4127	.4127
9.70	.3348	.2708	.2669	.2629	.4135	.3339	.3116	.2934	.7463	.4127	.2660	.2536
9.80	.3348	.2681	.2640	.2606	.4135	.3339	.3116	.2934	.7463	.3246	.2620	.2488
9.90	.3348	.2662	.2609	.2583	.4135	.3339	.3116	.2934	.7463	.3246	.2574	.2444
10.00	.3348	.2633	.2583	.2559	.4135	.3339	.3116	.2934	.7463	.3246	.2570	.2414
10.10	.3140	.2630	.2583	.2546	.4135	.3339	.3116	.2934	.4285	.3246	.2570	.2401
10.20	.3140	.2630	.2583	.2545	.4135	.3339	.3116	.2934	.4285	.3246	.2570	.2379

Спектри на реазиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-9 - Продължение

Hz	L			T			V		
	2%	5%	7%	2%	5%	7%	2%	5%	7%
10.30	.3140	.2630	.2583	.4135	.3322	.3116	.4285	.3246	.2570
10.40	.3140	.2630	.2583	.4135	.3322	.3116	.4285	.3246	.2570
10.50	.3140	.2630	.2583	.4135	.3322	.3116	.4285	.3246	.2570
10.60	.3140	.2630	.2583	.3056	.2897	.2897	.4285	.3246	.2570
10.70	.3140	.2630	.2583	.3056	.2789	.2789	.4285	.3246	.2570
10.80	.3111	.2630	.2583	.3056	.2736	.2711	.4285	.3246	.2570
10.90	.3111	.2630	.2583	.3056	.2736	.2711	.4285	.3246	.2570
11.00	.3111	.2630	.2583	.3056	.2736	.2711	.4285	.3246	.2570
11.10	.3111	.2630	.2583	.3056	.2736	.2711	.4285	.3246	.2570
11.20	.3111	.2630	.2583	.3056	.2736	.2711	.4285	.3246	.2570
11.30	.3111	.2630	.2583	.3056	.2736	.2711	.4285	.3075	.2570
11.40	.3111	.2630	.2583	.3056	.2736	.2711	.4285	.3075	.2570
11.50	.2920	.2630	.2583	.3056	.2736	.2711	.4285	.3075	.2570
11.60	.2920	.2630	.2583	.3056	.2736	.2711	.4285	.3075	.2570
11.70	.2920	.2630	.2583	.3056	.2736	.2711	.4285	.3075	.2570
11.80	.2920	.2630	.2583	.2958	.2736	.2711	.4285	.3075	.2570
11.90	.2920	.2630	.2583	.2958	.2736	.2711	.4285	.3075	.2570
12.00	.2920	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
12.10	.2920	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
12.20	.2920	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
12.30	.2833	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
12.40	.2833	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
12.50	.2833	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
12.60	.2833	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
12.70	.2833	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
12.80	.2833	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
12.90	.2833	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
13.00	.2833	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
13.10	.2833	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
13.20	.2833	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
13.30	.2833	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
13.40	.2833	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
13.50	.2833	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570
13.60	.2833	.2630	.2583	.2958	.2736	.2711	.4285	.2570	.2570

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-9 -- Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
13.70	.2833	.2630	.2583	.2534	.2868	.2736	.2683	.2662	.3345	.2484	.2374	.2291
13.80	.2833	.2630	.2583	.2532	.2868	.2736	.2683	.2659	.3345	.2484	.2374	.2291
13.90	.2833	.2630	.2583	.2530	.2868	.2736	.2683	.2656	.3345	.2484	.2374	.2291
14.00	.2833	.2630	.2583	.2527	.2868	.2736	.2683	.2654	.3345	.2484	.2374	.2291
14.10	.2833	.2630	.2583	.2524	.2868	.2736	.2682	.2653	.3345	.2484	.2374	.2291
14.20	.2833	.2630	.2583	.2521	.2868	.2736	.2680	.2653	.3345	.2484	.2374	.2291
14.30	.2833	.2630	.2583	.2518	.2868	.2736	.2677	.2653	.2972	.2483	.2374	.2291
14.40	.2833	.2630	.2583	.2515	.2868	.2736	.2672	.2653	.2972	.2483	.2374	.2291
14.50	.2833	.2630	.2583	.2512	.2868	.2736	.2669	.2653	.2972	.2483	.2374	.2291
14.60	.2833	.2630	.2583	.2509	.2868	.2736	.2669	.2653	.2972	.2483	.2374	.2291
14.70	.2833	.2630	.2583	.2505	.2868	.2736	.2669	.2653	.2972	.2483	.2374	.2291
14.80	.2833	.2630	.2583	.2502	.2868	.2736	.2669	.2653	.2972	.2483	.2374	.2291
14.90	.2833	.2630	.2583	.2499	.2868	.2736	.2669	.2653	.2972	.2483	.2374	.2291
15.00	.2833	.2630	.2583	.2496	.2868	.2736	.2669	.2653	.2972	.2483	.2374	.2291
15.10	.2833	.2630	.2583	.2494	.2868	.2736	.2669	.2653	.2972	.2483	.2374	.2291
15.20	.2833	.2630	.2583	.2492	.2868	.2736	.2669	.2653	.2972	.2483	.2374	.2291
15.30	.2833	.2630	.2583	.2489	.2868	.2736	.2669	.2652	.2972	.2483	.2374	.2291
15.40	.2833	.2630	.2583	.2487	.2868	.2736	.2669	.2651	.2972	.2483	.2374	.2291
15.50	.2833	.2630	.2583	.2485	.2868	.2736	.2669	.2650	.2972	.2483	.2374	.2291
15.60	.2773	.2630	.2583	.2483	.2868	.2736	.2669	.2648	.2972	.2483	.2374	.2291
15.70	.2773	.2630	.2583	.2480	.2868	.2736	.2669	.2646	.2972	.2483	.2374	.2010
15.80	.2773	.2630	.2583	.2478	.2868	.2736	.2669	.2644	.2972	.2483	.2374	.2002
15.90	.2773	.2630	.2583	.2477	.2868	.2715	.2669	.2642	.2972	.2483	.2374	.1997
16.00	.2773	.2475	.2475	.2475	.2817	.2715	.2669	.2640	.2972	.2483	.1996	.1994
16.10	.2773	.2473	.2473	.2473	.2817	.2715	.2669	.2638	.2972	.2483	.1996	.1992
16.20	.2651	.2471	.2471	.2471	.2817	.2715	.2669	.2637	.2635	.2226	.1996	.1991
16.30	.2651	.2470	.2470	.2470	.2817	.2715	.2669	.2635	.2635	.2104	.1996	.1990
16.40	.2651	.2468	.2468	.2468	.2817	.2715	.2669	.2633	.2635	.2048	.1996	.1990
16.50	.2651	.2467	.2467	.2467	.2817	.2715	.2669	.2631	.2635	.2024	.1996	.1990
16.60	.2651	.2466	.2466	.2466	.2817	.2715	.2669	.2630	.2635	.2014	.1996	.1990
16.70	.2651	.2465	.2465	.2465	.2817	.2715	.2669	.2628	.2635	.2010	.1996	.1990
16.80	.2651	.2463	.2463	.2463	.2817	.2715	.2669	.2626	.2635	.2007	.1996	.1990
16.90	.2651	.2462	.2462	.2462	.2817	.2715	.2669	.2625	.2635	.2007	.1996	.1990
17.00	.2651	.2461	.2461	.2461	.2817	.2715	.2669	.2623	.2635	.2007	.1996	.1990

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-9 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
17.10	.2651	.2461	.2461	.2461	.2817	.2715	.2669	.2622	.2635	.2006	.1996	.1990
17.20	.2651	.2460	.2460	.2460	.2817	.2715	.2669	.2620	.2635	.2005	.1996	.1990
17.30	.2651	.2459	.2459	.2459	.2817	.2715	.2669	.2619	.2635	.2005	.1996	.1990
17.40	.2464	.2459	.2459	.2459	.2817	.2715	.2669	.2618	.2635	.2005	.1996	.1989
17.50	.2464	.2458	.2458	.2458	.2817	.2691	.2669	.2617	.2635	.2005	.1996	.1989
17.60	.2464	.2458	.2458	.2458	.2817	.2691	.2669	.2615	.2635	.2005	.1996	.1988
17.70	.2464	.2457	.2457	.2457	.2817	.2691	.2669	.2614	.2635	.2005	.1996	.1987
17.80	.2464	.2457	.2457	.2457	.2767	.2691	.2669	.2613	.2635	.2004	.1996	.1987
17.90	.2464	.2457	.2457	.2457	.2767	.2691	.2669	.2612	.2635	.2003	.1994	.1986
18.00	.2464	.2457	.2457	.2457	.2767	.2691	.2669	.2611	.2635	.2002	.1993	.1984
18.10	.2464	.2457	.2456	.2456	.2767	.2691	.2669	.2610	.2635	.2000	.1991	.1983
18.20	.2464	.2456	.2456	.2456	.2767	.2691	.2669	.2610	.2108	.1998	.1990	.1982
18.30	.2464	.2457	.2456	.2456	.2767	.2691	.2669	.2609	.2108	.1995	.1988	.1981
18.40	.2464	.2457	.2456	.2456	.2767	.2691	.2669	.2608	.2108	.1993	.1987	.1979
18.50	.2464	.2457	.2456	.2456	.2767	.2691	.2669	.2607	.2108	.1990	.1985	.1978
18.60	.2464	.2457	.2456	.2456	.2767	.2691	.2669	.2606	.2108	.1988	.1983	.1977
18.70	.2464	.2457	.2456	.2455	.2767	.2691	.2669	.2606	.2108	.1986	.1981	.1975
18.80	.2464	.2457	.2456	.2455	.2691	.2691	.2669	.2605	.2108	.1983	.1979	.1974
18.90	.2464	.2457	.2456	.2455	.2606	.2605	.2605	.2604	.2108	.1981	.1978	.1972
19.00	.2464	.2457	.2456	.2455	.2605	.2605	.2605	.2604	.2108	.1979	.1976	.1971
19.10	.2464	.2457	.2456	.2455	.2604	.2604	.2604	.2603	.2108	.1977	.1974	.1969
19.20	.2464	.2457	.2456	.2454	.2604	.2604	.2604	.2603	.2108	.1975	.1973	.1968
19.30	.2464	.2457	.2456	.2454	.2604	.2604	.2603	.2602	.2108	.1974	.1971	.1966
19.40	.2464	.2457	.2455	.2454	.2604	.2603	.2603	.2602	.2101	.1972	.1970	.1965
19.50	.2464	.2457	.2455	.2454	.2604	.2603	.2602	.2601	.2101	.1971	.1969	.1963
19.60	.2464	.2457	.2455	.2453	.2604	.2602	.2602	.2600	.2101	.1971	.1967	.1962
19.70	.2464	.2457	.2455	.2453	.2604	.2602	.2601	.2600	.2101	.1970	.1966	.1961
19.80	.2464	.2456	.2454	.2453	.2604	.2602	.2601	.2599	.2101	.1969	.1965	.1959
19.90	.2464	.2456	.2454	.2453	.2604	.2601	.2600	.2599	.2101	.1968	.1964	.1958
20.00	.2464	.2456	.2454	.2453	.2604	.2601	.2600	.2599	.2101	.1968	.1962	.1956
20.10	.2464	.2456	.2454	.2453	.2604	.2601	.2600	.2598	.2101	.1965	.1959	.1953
20.20	.2464	.2456	.2454	.2453	.2604	.2601	.2600	.2597	.2101	.1963	.1958	.1952
20.30	.2464	.2455	.2454	.2452	.2603	.2600	.2599	.2597	.2101	.1962	.1956	.1950
20.40	.2464	.2455	.2453	.2452	.2603	.2600	.2598	.2597	.2101	.1960	.1955	.1949

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-9 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
.2464	.2454	.2453	.2452	.2452	.2602	.2599	.2598	.2596	.2101	.1959	.1953	.1947
.2464	.2453	.2452	.2451	.2451	.2601	.2599	.2598	.2596	.2039	.1957	.1951	.1945
.2464	.2452	.2452	.2451	.2450	.2600	.2599	.2597	.2595	.2039	.1955	.1950	.1944
.2464	.2452	.2451	.2450	.2450	.2600	.2598	.2597	.2595	.2039	.1953	.1948	.1942
.2464	.2451	.2451	.2450	.2450	.2599	.2598	.2596	.2594	.2039	.1951	.1946	.1941
.2464	.2450	.2450	.2449	.2449	.2599	.2597	.2596	.2594	.2039	.1949	.1944	.1939
.2464	.2450	.2449	.2449	.2449	.2599	.2597	.2595	.2593	.2039	.1947	.1942	.1937
.2464	.2449	.2449	.2449	.2449	.2599	.2597	.2595	.2593	.2039	.1945	.1940	.1936
.2464	.2449	.2448	.2448	.2448	.2599	.2596	.2594	.2592	.2039	.1944	.1939	.1934
.2464	.2449	.2448	.2448	.2448	.2599	.2596	.2594	.2592	.2039	.1942	.1937	.1932
.2464	.2449	.2448	.2448	.2448	.2599	.2596	.2594	.2591	.2039	.1941	.1936	.1931
.2464	.2449	.2448	.2448	.2448	.2599	.2595	.2593	.2591	.2039	.1939	.1934	.1929
.2464	.2449	.2447	.2447	.2447	.2599	.2595	.2593	.2590	.2039	.1937	.1933	.1928
.2464	.2449	.2447	.2447	.2447	.2599	.2594	.2592	.2590	.2039	.1936	.1931	.1927
.2464	.2449	.2447	.2447	.2447	.2599	.2594	.2592	.2589	.2039	.1934	.1929	.1925
.2464	.2449	.2447	.2447	.2447	.2599	.2594	.2591	.2589	.2039	.1932	.1928	.1924
.2464	.2449	.2447	.2447	.2447	.2599	.2593	.2591	.2588	.1983	.1930	.1926	.1922
.2464	.2449	.2446	.2446	.2446	.2599	.2593	.2590	.2588	.1983	.1928	.1924	.1921
.2464	.2449	.2446	.2446	.2446	.2599	.2592	.2590	.2587	.1983	.1925	.1922	.1920
.2464	.2449	.2446	.2446	.2446	.2599	.2591	.2589	.2586	.1983	.1922	.1921	.1918
.2464	.2449	.2446	.2446	.2446	.2599	.2591	.2588	.2586	.1983	.1919	.1919	.1917
.2464	.2449	.2446	.2446	.2446	.2599	.2590	.2588	.2585	.1983	.1917	.1917	.1916
.2464	.2449	.2446	.2446	.2446	.2599	.2590	.2587	.2585	.1983	.1915	.1915	.1915
.2464	.2449	.2446	.2446	.2446	.2599	.2590	.2587	.2584	.1983	.1913	.1913	.1913
.2464	.2449	.2446	.2446	.2446	.2599	.2589	.2586	.2584	.1983	.1912	.1912	.1912
.2464	.2449	.2446	.2446	.2445	.2598	.2589	.2586	.2583	.1983	.1911	.1911	.1911
.2464	.2449	.2446	.2446	.2445	.2596	.2588	.2585	.2583	.1983	.1910	.1910	.1910
.2464	.2449	.2446	.2446	.2445	.2594	.2587	.2585	.2583	.1983	.1909	.1909	.1909
.2464	.2449	.2446	.2446	.2445	.2592	.2586	.2584	.2582	.1983	.1908	.1908	.1908
.2464	.2449	.2446	.2446	.2445	.2590	.2585	.2584	.2582	.1983	.1907	.1907	.1907
.2464	.2449	.2446	.2446	.2445	.2588	.2585	.2583	.2581	.1983	.1907	.1907	.1907
.2464	.2449	.2446	.2446	.2445	.2586	.2584	.2582	.2581	.1983	.1906	.1906	.1906
.2464	.2449	.2446	.2446	.2445	.2585	.2583	.2582	.2580	.1983	.1905	.1905	.1905
.2464	.2449	.2446	.2446	.2445	.2585	.2582	.2581	.2580	.1983	.1905	.1904	.1904

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-9 – Продължение

Hz	L				T				V			
	28	58	78	108	28	58	78	108	28	58	78	108
23.90	.2464	.2449	.2446	.2445	.2585	.2581	.2581	.2580	.1983	.1905	.1904	.1904
24.00	.2464	.2449	.2446	.2445	.2585	.2580	.2580	.2579	.1983	.1905	.1904	.1903
24.10	.2462	.2449	.2446	.2444	.2585	.2580	.2580	.2579	.1983	.1905	.1903	.1902
24.20	.2462	.2449	.2446	.2444	.2585	.2579	.2579	.2578	.1983	.1905	.1903	.1902
24.30	.2462	.2449	.2445	.2444	.2585	.2579	.2579	.2578	.1983	.1905	.1903	.1901
24.40	.2462	.2449	.2445	.2444	.2585	.2578	.2578	.2578	.1983	.1905	.1902	.1901
24.50	.2462	.2449	.2445	.2444	.2585	.2578	.2578	.2577	.1983	.1904	.1902	.1900
24.60	.2462	.2449	.2445	.2444	.2585	.2578	.2578	.2577	.1983	.1904	.1901	.1899
24.70	.2462	.2449	.2445	.2444	.2585	.2578	.2577	.2577	.1952	.1904	.1901	.1899
24.80	.2462	.2449	.2444	.2443	.2585	.2578	.2577	.2576	.1952	.1903	.1901	.1898
24.90	.2462	.2449	.2444	.2443	.2585	.2578	.2577	.2576	.1952	.1903	.1901	.1898
25.00	.2462	.2449	.2443	.2442	.2585	.2578	.2577	.2576	.1952	.1903	.1901	.1898
25.10	.2462	.2449	.2443	.2442	.2585	.2578	.2577	.2576	.1952	.1903	.1901	.1898
25.20	.2462	.2449	.2443	.2442	.2585	.2578	.2577	.2576	.1952	.1903	.1901	.1897
25.30	.2462	.2449	.2443	.2441	.2585	.2578	.2577	.2575	.1952	.1903	.1901	.1897
25.40	.2462	.2449	.2442	.2441	.2585	.2578	.2576	.2575	.1952	.1903	.1901	.1896
25.50	.2462	.2449	.2442	.2441	.2585	.2578	.2576	.2575	.1952	.1903	.1901	.1895
25.60	.2462	.2449	.2442	.2441	.2585	.2578	.2576	.2575	.1952	.1903	.1901	.1895
25.70	.2462	.2449	.2442	.2441	.2585	.2578	.2576	.2575	.1952	.1903	.1901	.1894
25.80	.2462	.2449	.2442	.2441	.2585	.2578	.2576	.2575	.1952	.1903	.1901	.1894
25.90	.2462	.2449	.2442	.2441	.2585	.2578	.2576	.2574	.1952	.1903	.1901	.1893
26.00	.2462	.2449	.2441	.2440	.2585	.2578	.2576	.2574	.1952	.1903	.1901	.1893
26.10	.2462	.2449	.2441	.2440	.2585	.2578	.2576	.2574	.1952	.1903	.1901	.1892
26.20	.2462	.2449	.2441	.2440	.2585	.2578	.2576	.2574	.1952	.1903	.1901	.1892
26.30	.2462	.2449	.2441	.2440	.2585	.2578	.2576	.2573	.1952	.1903	.1901	.1892
26.40	.2462	.2449	.2440	.2440	.2585	.2578	.2575	.2573	.1952	.1903	.1901	.1891
26.50	.2462	.2449	.2440	.2440	.2585	.2578	.2575	.2573	.1952	.1903	.1901	.1891
26.60	.2462	.2449	.2440	.2439	.2585	.2577	.2575	.2573	.1952	.1903	.1901	.1890
26.70	.2462	.2449	.2440	.2439	.2585	.2577	.2575	.2572	.1952	.1903	.1901	.1890
26.80	.2462	.2449	.2439	.2439	.2585	.2577	.2574	.2572	.1952	.1903	.1901	.1889
26.90	.2462	.2449	.2439	.2439	.2585	.2577	.2574	.2572	.1952	.1903	.1901	.1889
27.00	.2462	.2449	.2439	.2439	.2584	.2576	.2574	.2571	.1952	.1903	.1901	.1889
27.10	.2462	.2449	.2439	.2439	.2583	.2576	.2574	.2571	.1952	.1903	.1901	.1888
27.20	.2462	.2449	.2438	.2438	.2581	.2575	.2573	.2571	.1952	.1903	.1901	.1888

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-9 – Продължение

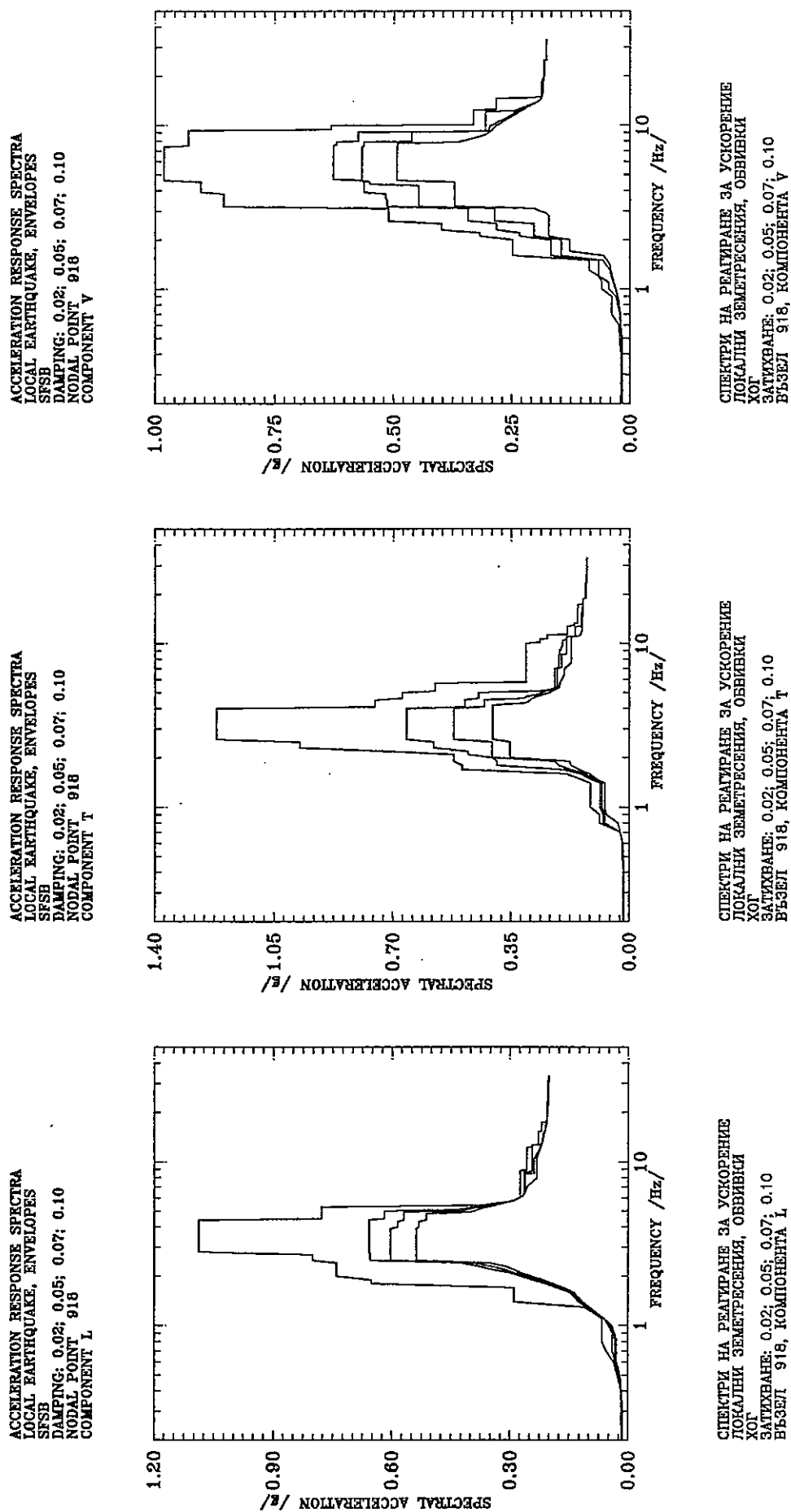
Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
27.30	.2462	.2449	.2438	.2438	.2580	.2575	.2573	.2571	.1952	.1903	.1901	.1888
27.40	.2462	.2449	.2438	.2438	.2578	.2575	.2573	.2570	.1952	.1903	.1901	.1887
27.50	.2462	.2449	.2438	.2438	.2577	.2574	.2572	.2570	.1921	.1903	.1901	.1887
27.60	.2462	.2449	.2438	.2438	.2576	.2573	.2572	.2570	.1921	.1903	.1901	.1886
27.70	.2462	.2449	.2438	.2438	.2575	.2573	.2571	.2569	.1921	.1903	.1901	.1886
27.80	.2462	.2449	.2438	.2438	.2574	.2572	.2571	.2569	.1921	.1903	.1901	.1886
27.90	.2462	.2449	.2438	.2438	.2573	.2572	.2571	.2569	.1921	.1903	.1901	.1885
28.00	.2462	.2449	.2438	.2438	.2573	.2571	.2570	.2568	.1921	.1903	.1901	.1885
28.10	.2462	.2449	.2438	.2438	.2572	.2571	.2570	.2568	.1921	.1903	.1901	.1884
28.20	.2462	.2449	.2438	.2437	.2572	.2571	.2569	.2568	.1921	.1903	.1901	.1884
28.30	.2462	.2449	.2438	.2437	.2572	.2570	.2569	.2567	.1921	.1903	.1901	.1883
28.40	.2462	.2449	.2438	.2437	.2572	.2570	.2569	.2567	.1921	.1903	.1901	.1883
28.50	.2462	.2449	.2438	.2437	.2572	.2569	.2568	.2567	.1921	.1903	.1901	.1882
28.60	.2462	.2449	.2438	.2437	.2572	.2569	.2568	.2566	.1921	.1903	.1901	.1882
28.70	.2462	.2449	.2438	.2437	.2572	.2568	.2567	.2566	.1921	.1903	.1901	.1881
28.80	.2462	.2449	.2438	.2437	.2572	.2568	.2567	.2566	.1921	.1903	.1901	.1881
28.90	.2462	.2449	.2438	.2437	.2572	.2568	.2567	.2566	.1921	.1903	.1901	.1880
29.00	.2462	.2449	.2438	.2437	.2572	.2567	.2567	.2565	.1921	.1903	.1901	.1879
29.10	.2462	.2449	.2438	.2437	.2572	.2567	.2566	.2565	.1921	.1903	.1901	.1879
29.20	.2462	.2449	.2438	.2437	.2572	.2567	.2566	.2565	.1921	.1903	.1901	.1878
29.30	.2462	.2449	.2438	.2437	.2572	.2566	.2566	.2564	.1921	.1903	.1901	.1878
29.40	.2453	.2439	.2438	.2437	.2572	.2566	.2566	.2564	.1921	.1903	.1901	.1877
29.50	.2453	.2439	.2438	.2437	.2572	.2566	.2566	.2564	.1921	.1903	.1901	.1876
29.60	.2453	.2439	.2438	.2437	.2572	.2566	.2566	.2564	.1921	.1903	.1901	.1876
29.70	.2453	.2439	.2438	.2437	.2572	.2566	.2566	.2564	.1921	.1903	.1901	.1876
29.80	.2453	.2439	.2438	.2437	.2572	.2566	.2566	.2564	.1903	.1903	.1901	.1876
29.90	.2453	.2439	.2438	.2437	.2572	.2566	.2566	.2564	.1903	.1903	.1901	.1876
30.00	.2453	.2439	.2438	.2437	.2572	.2566	.2566	.2564	.1903	.1903	.1901	.1876
30.10	.2453	.2439	.2438	.2437	.2572	.2566	.2566	.2564	.1903	.1903	.1901	.1876
30.20	.2453	.2439	.2438	.2437	.2572	.2566	.2566	.2564	.1903	.1903	.1901	.1876
30.30	.2453	.2439	.2438	.2437	.2572	.2566	.2566	.2564	.1903	.1903	.1901	.1876
30.40	.2453	.2438	.2438	.2437	.2572	.2566	.2566	.2564	.1903	.1903	.1901	.1875
30.50	.2453	.2438	.2438	.2437	.2572	.2566	.2566	.2563	.1903	.1903	.1901	.1875
30.60	.2453	.2438	.2438	.2437	.2572	.2566	.2566	.2563	.1903	.1903	.1901	.1874

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-9 – Продължение

Hz	L			T			V					
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
.2453	.2438	.2438	.2438	.2437	.2572	.2566	.2566	.2563	.1903	.1903	.1901	.1873
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2563	.1903	.1903	.1901	.1872
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2562	.1903	.1903	.1901	.1872
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2562	.1888	.1885	.1876	.1872
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2562	.1888	.1885	.1875	.1871
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2562	.1888	.1885	.1875	.1871
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2562	.1888	.1885	.1874	.1870
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2562	.1888	.1885	.1874	.1870
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2562	.1888	.1885	.1873	.1869
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2561	.1888	.1885	.1873	.1869
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2561	.1888	.1885	.1872	.1869
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2561	.1888	.1885	.1871	.1868
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2561	.1888	.1885	.1871	.1868
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2561	.1888	.1885	.1870	.1868
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2561	.1888	.1885	.1870	.1867
.2453	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2560	.1888	.1885	.1869	.1867
.2438	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2560	.1888	.1885	.1869	.1867
.2438	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2560	.1888	.1885	.1868	.1866
.2438	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2560	.1888	.1885	.1868	.1866
.2438	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2560	.1888	.1885	.1868	.1866
.2438	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2560	.1888	.1885	.1867	.1865
.2438	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2560	.1888	.1885	.1867	.1865
.2438	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2559	.1888	.1885	.1867	.1865
.2438	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2559	.1888	.1885	.1867	.1865
.2438	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2559	.1888	.1885	.1867	.1865
.2438	.2438	.2438	.2438	.2436	.2572	.2566	.2566	.2559	.1888	.1885	.1867	.1865

Спектри на реагиране за укрепената конструкция на ХОГ



Фиг.П1-21 Спектри на реагиране.Въздействие - локални земетр. Възел 918

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-21
ЕТАЖНИ СПЕКТРИ НА РЕАГИРАНЕ - ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ
ВЪЗБА 918

Hz	L			T			V					
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
.20	.0167	.0155	.0149	.0141	.0183	.0170	.0164	.0157	.0188	.0174	.0165	.0156
.40	.0177	.0177	.0177	.0177	.0183	.0170	.0164	.0157	.0192	.0174	.0165	.0159
.60	.0381	.0338	.0335	.0295	.0208	.0198	.0195	.0193	.0236	.0209	.0196	.0188
.80	.0667	.0402	.0335	.0295	.0893	.0780	.0733	.0342	.0394	.0269	.0237	.0229
1.00	.0667	.0514	.0455	.0424	.1150	.0875	.0814	.0741	.0606	.0460	.0313	.0307
1.20	.0890	.0838	.0822	.0799	.1150	.0875	.0814	.0741	.0866	.0673	.0402	.0386
1.40	.2898	.1255	.1199	.1155	.1150	.0875	.0814	.0741	.2481	.1667	.0510	.0424
1.60	.2898	.1483	.1440	.1378	.1860	.1452	.1323	.1185	.2481	.1667	.1447	.0571
1.80	.6524	.2110	.2028	.1911	.4946	.3931	.2097	.1736	.2481	.1667	.1447	.1272
2.00	.7405	.2744	.2596	.2452	.5205	.4075	.4075	.3543	.2481	.1667	.1447	.1272
2.20	.7405	.3489	.3154	.2931	.7104	.4780	.4075	.3543	.3186	.2342	.2025	.1720
2.40	.7405	.4246	.3896	.3522	.9754	.5801	.4075	.3543	.3985	.2822	.2025	.1720
2.60	.8004	.6553	.6035	.5377	1.2190	.6604	.5209	.4045	.5103	.3422	.2874	.1720
2.80	1.0880	.6585	.6035	.5377	1.2190	.6604	.5209	.4045	.5103	.3422	.2874	.1720
3.00	1.0880	.6585	.6035	.5377	1.2190	.6604	.5209	.4045	.5103	.3422	.2874	.1901
3.20	1.0880	.6585	.6035	.5377	1.2190	.6604	.5209	.4045	.8561	.5135	.4470	.3721
3.40	1.0880	.6585	.6035	.5377	1.2190	.6604	.5209	.4045	.8561	.5135	.4470	.3721
3.60	1.0880	.6585	.6035	.5377	1.2190	.6604	.5209	.4045	.8561	.5174	.4470	.3721
3.80	1.0880	.6585	.6035	.5377	1.2190	.6604	.5209	.4045	.8561	.5174	.4470	.3721
4.00	1.0880	.6585	.5843	.5318	1.2190	.6604	.5209	.4045	.9044	.5625	.4470	.3721
4.20	1.0880	.6585	.5843	.5318	.7544	.4875	.4301	.4045	.9044	.5625	.4470	.3721
4.40	1.0880	.6585	.5697	.5129	.7544	.4875	.4301	.2981	.9044	.5625	.5507	.3721
4.60	.7780	.6190	.5697	.5129	.6732	.4474	.3118	.2861	.9809	.5670	.5670	.4930
4.80	.7780	.6190	.5697	.5129	.6732	.4474	.2913	.2654	.9809	.6273	.5670	.4930
5.00	.7780	.6190	.4260	.3931	.6732	.4474	.2584	.2357	.9809	.6273	.5670	.4930
5.20	.7780	.4068	.3896	.3676	.5771	.2439	.2336	.2199	.9809	.6273	.5670	.4930
5.40	.3839	.3620	.3499	.3388	.5771	.2207	.2134	.2081	.9809	.6273	.5670	.4930
5.60	.3280	.3214	.3170	.3123	.5771	.2207	.2130	.2065	.9809	.6273	.5670	.4930
5.80	.2912	.2912	.2912	.2912	.3047	.2207	.2130	.2040	.9809	.6273	.5670	.4930
6.00	.2765	.2765	.2765	.2765	.3047	.2207	.2130	.1998	.9809	.6273	.5670	.4930
6.20	.2742	.2673	.2673	.2673	.3047	.2207	.2130	.1960	.9809	.6273	.5670	.4930
6.40	.2742	.2637	.2624	.2624	.3047	.2207	.2130	.1936	.9809	.6273	.5670	.4930
6.60	.2742	.2637	.2602	.2597	.3047	.2207	.2130	.1930	.9809	.6273	.5670	.4930

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-21 - Продължение

Hz	L			T			V					
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
6.80	.2742	.2637	.2602	.2576	.3047	.2207	.2130	.1927	.9809	.6273	.5670	.4930
7.00	.2742	.2637	.2602	.2550	.3047	.2207	.2130	.1906	.9809	.6273	.5670	.4930
7.20	.2742	.2637	.2602	.2512	.3047	.2096	.2010	.1861	.9809	.6273	.5670	.4930
7.40	.2742	.2637	.2602	.2461	.3047	.2096	.2010	.1791	.9809	.6273	.5670	.4930
7.60	.2742	.2637	.2602	.2400	.3047	.2096	.2010	.1717	.9301	.6207	.5626	.4921
7.80	.2742	.2637	.2602	.2341	.3047	.2096	.2010	.1717	.9301	.6207	.5626	.4921
8.00	.2742	.2637	.2602	.2318	.3047	.2096	.2010	.1717	.9301	.5748	.4614	.3555
8.20	.2742	.2637	.2602	.2318	.3047	.2096	.2010	.1717	.9301	.5748	.4614	.3411
8.40	.2742	.2637	.2602	.2318	.3047	.2096	.2010	.1717	.9301	.5748	.4614	.3273
8.60	.2742	.2637	.2376	.2318	.3047	.2055	.1858	.1717	.9301	.5748	.4614	.3151
8.80	.2742	.2431	.2376	.2318	.3047	.2055	.1858	.1717	.9301	.5748	.4614	.3052
9.00	.2569	.2431	.2376	.2318	.3047	.2055	.1858	.1717	.9301	.5748	.4614	.2993
9.20	.2569	.2431	.2376	.2318	.3047	.2009	.1858	.1717	.9301	.3062	.2999	.2950
9.40	.2569	.2431	.2376	.2318	.3047	.2009	.1858	.1717	.6315	.3062	.2983	.2917
9.60	.2569	.2431	.2376	.2318	.3047	.1979	.1858	.1717	.6315	.3062	.2978	.2890
9.80	.2569	.2431	.2376	.2318	.3047	.1979	.1858	.1717	.6315	.3062	.2968	.2860
10.00	.2569	.2431	.2376	.2318	.3047	.1979	.1858	.1717	.6315	.3062	.2940	.2823
10.20	.2569	.2431	.2376	.2318	.2654	.1978	.1858	.1717	.3312	.3062	.2873	.2758
10.40	.2569	.2431	.2372	.2316	.2654	.1978	.1858	.1717	.3312	.3062	.2821	.2718
10.60	.2569	.2431	.2357	.2307	.2654	.1858	.1858	.1717	.3312	.3062	.2758	.2672
10.80	.2569	.2431	.2346	.2300	.2430	.1858	.1858	.1717	.3312	.3062	.2694	.2625
11.00	.2569	.2431	.2329	.2291	.2430	.1858	.1858	.1717	.3312	.3062	.2638	.2578
11.20	.2569	.2431	.2307	.2278	.2430	.1615	.1474	.1467	.3312	.3062	.2593	.2535
11.40	.2569	.2431	.2283	.2265	.1842	.1615	.1456	.1451	.3312	.3062	.2555	.2492
11.60	.2569	.2431	.2263	.2251	.1842	.1615	.1436	.1436	.3312	.3062	.2516	.2450
11.80	.2569	.2431	.2248	.2239	.1842	.1615	.1422	.1422	.3312	.3062	.2472	.2405
12.00	.2569	.2431	.2237	.2228	.1842	.1615	.1422	.1411	.3312	.3062	.2428	.2358
12.20	.2569	.2431	.2228	.2218	.1842	.1615	.1422	.1406	.3312	.2462	.2391	.2312
12.40	.2431	.2431	.2219	.2208	.1842	.1615	.1422	.1406	.3312	.2409	.2346	.2274
12.60	.2431	.2431	.2208	.2198	.1842	.1615	.1422	.1406	.2835	.2350	.2296	.2233
12.80	.2279	.2202	.2195	.2188	.1641	.1445	.1422	.1406	.2835	.2287	.2242	.2189
13.00	.2279	.2184	.2182	.2179	.1641	.1445	.1422	.1406	.2835	.2221	.2185	.2145
13.20	.2279	.2172	.2172	.2171	.1641	.1445	.1422	.1406	.2835	.2151	.2127	.2100
13.40	.2279	.2165	.2165	.2164	.1542	.1445	.1422	.1406	.2835	.2079	.2068	.2056

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-21 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
13.60	.2279	.2162	.2160	.2157	.1542	.1445	.1422	.1406	.2835	.2015	.2015	.2015
13.80	.2279	.2162	.2157	.2151	.1542	.1445	.1422	.1406	.2835	.1976	.1976	.1976
14.00	.2279	.2162	.2153	.2146	.1542	.1445	.1422	.1405	.2835	.1942	.1942	.1942
14.20	.2279	.2161	.2151	.2142	.1542	.1445	.1422	.1404	.2835	.1913	.1913	.1913
14.40	.2279	.2159	.2148	.2137	.1542	.1445	.1421	.1400	.2835	.1889	.1889	.1889
14.60	.2279	.2154	.2142	.2132	.1542	.1440	.1416	.1396	.2835	.1878	.1878	.1878
14.80	.2279	.2145	.2136	.2126	.1542	.1435	.1412	.1391	.2051	.1871	.1871	.1871
15.00	.2279	.2135	.2128	.2120	.1542	.1428	.1407	.1389	.1879	.1866	.1866	.1866
15.20	.2279	.2123	.2120	.2116	.1542	.1428	.1402	.1389	.1867	.1861	.1861	.1861
15.40	.2195	.2112	.2111	.2110	.1542	.1428	.1392	.1389	.1867	.1857	.1857	.1857
15.60	.2195	.2104	.2104	.2104	.1542	.1428	.1389	.1389	.1867	.1853	.1853	.1853
15.80	.2195	.2098	.2098	.2098	.1542	.1428	.1389	.1389	.1867	.1852	.1852	.1852
16.00	.2195	.2093	.2093	.2093	.1540	.1428	.1389	.1389	.1867	.1852	.1852	.1852
16.20	.2195	.2089	.2089	.2089	.1540	.1428	.1389	.1389	.1867	.1852	.1849	.1849
16.40	.2195	.2085	.2085	.2085	.1540	.1428	.1389	.1389	.1867	.1852	.1849	.1849
16.60	.2195	.2082	.2082	.2082	.1529	.1428	.1389	.1389	.1867	.1852	.1849	.1849
16.80	.2195	.2078	.2078	.2078	.1529	.1389	.1389	.1389	.1867	.1852	.1848	.1848
17.00	.2195	.2076	.2076	.2076	.1529	.1389	.1389	.1389	.1867	.1852	.1848	.1848
17.20	.2195	.2073	.2073	.2073	.1529	.1389	.1389	.1389	.1867	.1852	.1848	.1847
17.40	.2195	.2070	.2070	.2070	.1389	.1389	.1389	.1389	.1867	.1852	.1848	.1846
17.60	.2068	.2068	.2068	.2068	.1389	.1389	.1389	.1389	.1867	.1852	.1848	.1845
17.80	.2066	.2066	.2066	.2066	.1389	.1389	.1389	.1389	.1867	.1852	.1848	.1844
18.00	.2064	.2064	.2064	.2064	.1389	.1389	.1389	.1389	.1867	.1852	.1847	.1842
18.20	.2062	.2062	.2062	.2062	.1389	.1389	.1389	.1389	.1867	.1851	.1846	.1841
18.40	.2060	.2060	.2060	.2060	.1389	.1389	.1389	.1389	.1866	.1850	.1844	.1839
18.60	.2059	.2059	.2059	.2059	.1389	.1389	.1389	.1389	.1862	.1847	.1841	.1836
18.80	.2057	.2057	.2057	.2057	.1309	.1307	.1307	.1307	.1856	.1843	.1838	.1834
19.00	.2056	.2055	.2055	.2055	.1309	.1305	.1305	.1305	.1850	.1839	.1835	.1831
19.20	.2055	.2054	.2054	.2054	.1309	.1303	.1303	.1303	.1843	.1835	.1832	.1828
19.40	.2055	.2052	.2052	.2052	.1309	.1301	.1301	.1301	.1835	.1830	.1828	.1825
19.60	.2055	.2051	.2051	.2051	.1309	.1300	.1300	.1300	.1827	.1825	.1824	.1822
19.80	.2055	.2049	.2049	.2049	.1309	.1300	.1298	.1298	.1821	.1821	.1821	.1820
20.00	.2055	.2048	.2048	.2048	.1309	.1300	.1297	.1297	.1821	.1821	.1821	.1820
20.20	.2055	.2047	.2047	.2047	.1309	.1300	.1297	.1297	.1821	.1821	.1821	.1820

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-21 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
20.40	.2055	.2046	.2046	.2046	.1309	.1300	.1296	.1296	.1821	.1821	.1821	.1820
20.60	.2055	.2044	.2044	.2044	.1309	.1300	.1296	.1295	.1821	.1821	.1821	.1820
20.80	.2055	.2043	.2043	.2043	.1309	.1300	.1296	.1295	.1821	.1821	.1821	.1820
21.00	.2055	.2042	.2042	.2042	.1309	.1300	.1296	.1295	.1821	.1821	.1821	.1820
21.20	.2055	.2042	.2042	.2042	.1309	.1300	.1296	.1295	.1821	.1821	.1821	.1820
21.40	.2055	.2042	.2041	.2041	.1309	.1300	.1296	.1294	.1821	.1821	.1821	.1820
21.60	.2055	.2042	.2040	.2040	.1309	.1300	.1296	.1294	.1821	.1821	.1821	.1820
21.80	.2055	.2042	.2040	.2039	.1309	.1300	.1296	.1294	.1821	.1821	.1821	.1820
22.00	.2055	.2042	.2040	.2039	.1309	.1300	.1296	.1294	.1821	.1821	.1821	.1820
22.20	.2055	.2042	.2040	.2038	.1309	.1300	.1296	.1294	.1821	.1821	.1821	.1820
22.40	.2055	.2042	.2040	.2038	.1309	.1300	.1296	.1293	.1821	.1821	.1821	.1820
22.60	.2055	.2042	.2039	.2037	.1309	.1300	.1296	.1293	.1821	.1821	.1821	.1820
22.80	.2055	.2042	.2039	.2036	.1309	.1299	.1296	.1292	.1821	.1821	.1821	.1820
23.00	.2053	.2041	.2038	.2035	.1308	.1299	.1295	.1292	.1821	.1821	.1821	.1820
23.20	.2047	.2040	.2037	.2035	.1307	.1298	.1294	.1291	.1821	.1821	.1821	.1820
23.40	.2041	.2038	.2036	.2034	.1305	.1296	.1293	.1290	.1821	.1821	.1821	.1820
23.60	.2037	.2037	.2035	.2033	.1302	.1295	.1292	.1289	.1821	.1821	.1821	.1820
23.80	.2037	.2035	.2034	.2032	.1298	.1293	.1291	.1288	.1821	.1821	.1821	.1820
24.00	.2037	.2034	.2033	.2031	.1295	.1291	.1290	.1287	.1821	.1821	.1821	.1820
24.20	.2037	.2033	.2032	.2030	.1291	.1290	.1288	.1286	.1821	.1821	.1821	.1820
24.40	.2037	.2032	.2031	.2029	.1291	.1288	.1287	.1285	.1821	.1821	.1821	.1820
24.60	.2037	.2031	.2030	.2028	.1291	.1287	.1286	.1284	.1821	.1821	.1821	.1820
24.80	.2037	.2030	.2029	.2027	.1291	.1286	.1285	.1283	.1821	.1821	.1821	.1820
25.00	.2035	.2030	.2028	.2026	.1291	.1286	.1285	.1283	.1778	.1774	.1774	.1774
25.20	.2035	.2030	.2028	.2026	.1291	.1286	.1285	.1283	.1778	.1770	.1770	.1770
25.40	.2035	.2030	.2027	.2025	.1291	.1286	.1284	.1282	.1778	.1770	.1770	.1769
25.60	.2035	.2030	.2026	.2024	.1291	.1285	.1283	.1281	.1778	.1770	.1770	.1769
25.80	.2035	.2030	.2025	.2024	.1291	.1285	.1283	.1281	.1778	.1770	.1770	.1768
26.00	.2035	.2030	.2024	.2022	.1291	.1284	.1282	.1280	.1778	.1770	.1770	.1767
26.20	.2035	.2030	.2024	.2023	.1291	.1283	.1281	.1279	.1778	.1770	.1770	.1767
26.40	.2035	.2030	.2023	.2021	.1289	.1282	.1280	.1278	.1778	.1770	.1770	.1767
26.60	.2035	.2030	.2022	.2020	.1287	.1281	.1279	.1277	.1778	.1770	.1770	.1767
26.80	.2035	.2030	.2021	.2020	.1287	.1279	.1278	.1277	.1778	.1770	.1770	.1767
27.00	.2035	.2030	.2020	.2019	.1287	.1279	.1277	.1276	.1778	.1770	.1770	.1767

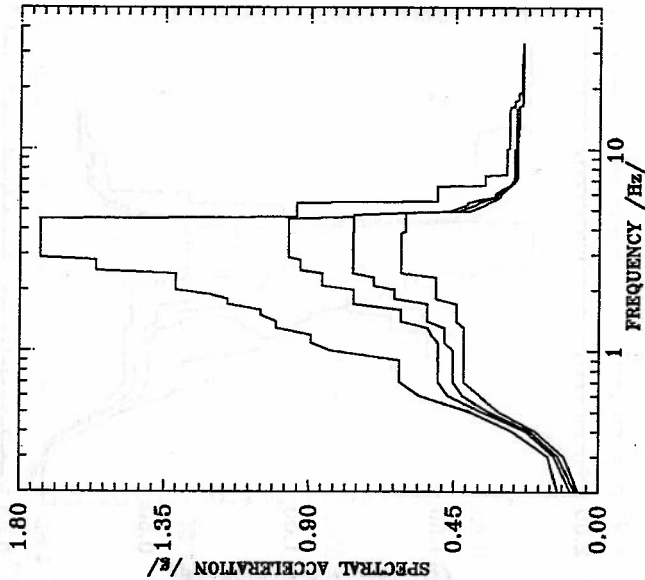
Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-21 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
27.20	.2035	.2030	.2019	.2018	.1287	.1279	.1276	.1275	.1778	.1770	.1768	.1767
27.40	.2035	.2030	.2018	.2018	.1287	.1279	.1275	.1274	.1778	.1770	.1768	.1767
27.60	.2035	.2030	.2017	.2017	.1287	.1279	.1275	.1274	.1778	.1770	.1768	.1767
27.80	.2035	.2030	.2017	.2016	.1287	.1279	.1275	.1273	.1778	.1770	.1768	.1767
28.00	.2035	.2030	.2016	.2016	.1287	.1279	.1275	.1272	.1778	.1770	.1768	.1767
28.20	.2035	.2030	.2016	.2015	.1287	.1279	.1275	.1272	.1778	.1770	.1768	.1767
28.40	.2035	.2030	.2015	.2015	.1287	.1279	.1275	.1271	.1778	.1770	.1768	.1767
28.60	.2035	.2030	.2015	.2014	.1287	.1279	.1275	.1271	.1778	.1770	.1768	.1767
28.80	.2035	.2030	.2015	.2014	.1287	.1279	.1275	.1271	.1778	.1770	.1768	.1767
29.00	.2035	.2030	.2014	.2014	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
29.20	.2035	.2030	.2014	.2013	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
29.40	.2035	.2030	.2014	.2013	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
29.60	.2035	.2030	.2014	.2013	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
29.80	.2035	.2030	.2014	.2012	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
30.00	.2035	.2030	.2014	.2012	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
30.20	.2035	.2030	.2013	.2011	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
30.40	.2035	.2030	.2013	.2011	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
30.60	.2035	.2030	.2013	.2011	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
30.80	.2035	.2030	.2012	.2010	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
31.00	.2035	.2030	.2012	.2010	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
31.20	.2016	.2014	.2012	.2010	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
31.40	.2016	.2014	.2012	.2010	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
31.60	.2016	.2014	.2012	.2010	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
31.80	.2016	.2014	.2012	.2010	.1287	.1279	.1275	.1270	.1778	.1770	.1768	.1767
32.00	.2016	.2014	.2012	.2009	.1287	.1279	.1275	.1270	.1777	.1769	.1767	.1767
32.20	.2016	.2014	.2012	.2009	.1287	.1279	.1275	.1270	.1775	.1768	.1767	.1767
32.40	.2016	.2014	.2012	.2009	.1287	.1279	.1275	.1270	.1773	.1768	.1767	.1767
32.60	.2016	.2014	.2012	.2009	.1287	.1279	.1275	.1270	.1771	.1768	.1767	.1767
32.80	.2016	.2014	.2012	.2009	.1287	.1279	.1275	.1270	.1771	.1768	.1766	.1766
33.00	.2016	.2014	.2012	.2009	.1287	.1279	.1275	.1270	.1771	.1768	.1766	.1766
33.20	.2016	.2014	.2012	.2009	.1287	.1279	.1275	.1270	.1771	.1768	.1766	.1766

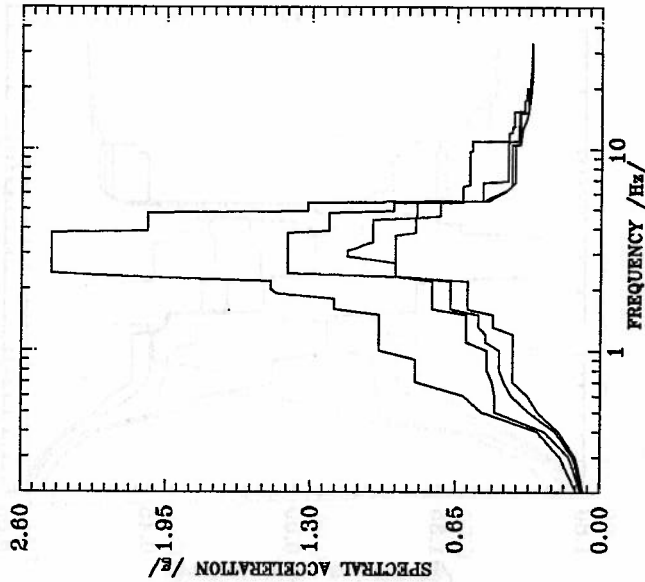
Спектри на реагиране за укрепената конструкция на ХОГ

ACCELERATION RESPONSE SPECTRA
RLE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 936
COMPONENT L



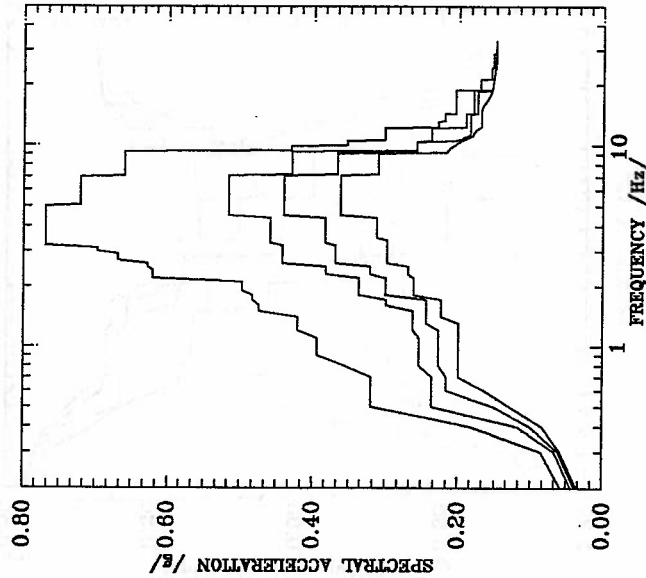
СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 936, КОМПОНЕНТА L

ACCELERATION RESPONSE SPECTRA
RLE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 936
COMPONENT T



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 936, КОМПОНЕНТА T

ACCELERATION RESPONSE SPECTRA
RLE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 936
COMPONENT V



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 936, КОМПОНЕНТА V

Фиг.П1-10 Спектри на реагиране.Въздействие - RLE. Възел 936

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-10
ЕТАЖНИ СПЕКТРИ НА РЕАГИРАНЕ - RLE
ВЪЗЕЛ 936

Hz	L			T			V		
	2%	5%	7%	2%	5%	7%	2%	5%	7%
.20	.1273	.0872	.0729	.0620	.1054	.0841	.0569	.0425	.0380
.30	.1565	.1375	.1242	.1070	.1823	.1409	.0849	.0658	.0611
.40	.2695	.2278	.2133	.1975	.2856	.2533	.1836	.1189	.1006
.50	.3985	.3623	.3401	.3114	.5361	.4782	.3192	.2358	.1503
.60	.5613	.4712	.4258	.3708	.6164	.4782	.3192	.2358	.1503
.70	.6205	.5001	.4551	.4203	.8332	.4904	.3192	.2358	.1503
.80	.6205	.5001	.4551	.4203	.8332	.5113	.3568	.2539	.2273
.90	.6205	.5001	.4551	.4203	.8332	.5113	.3945	.2539	.2273
1.00	.8353	.5008	.4551	.4203	.9950	.5113	.3945	.2539	.2273
1.10	.8956	.5014	.4807	.4203	.9950	.6059	.3945	.2539	.2273
1.20	.8956	.5220	.4807	.4203	.9950	.6059	.4205	.2625	.2273
1.30	1.0030	.5318	.4807	.4203	.9950	.6059	.4205	.2625	.2273
1.40	1.0030	.6160	.5346	.4444	.9950	.6059	.4205	.2625	.2273
1.50	1.0510	.6160	.5346	.4444	.9950	.6059	.4743	.2625	.2273
1.60	1.0510	.6160	.5346	.4444	1.1980	.7584	.4743	.2990	.2443
1.70	1.1530	.7638	.5346	.4444	1.1980	.7584	.4834	.2990	.2443
1.80	1.1530	.7638	.6371	.5097	1.1980	.7584	.4834	.3361	.3000
1.90	1.2140	.7638	.6371	.5097	1.4540	.7584	.4977	.3361	.3000
2.00	1.3160	.7638	.6371	.5097	1.4810	.7584	.4977	.3361	.3000
2.10	1.3160	.8601	.7003	.5097	1.4810	.7584	.4977	.3361	.3000
2.20	1.3160	.8601	.7003	.5097	1.4810	.7584	.6206	.3361	.3000
2.30	1.3160	.8601	.7003	.5097	2.1100	.9226	.6206	.3823	.3214
2.40	1.3160	.8601	.7645	.6173	2.4650	1.4060	.6206	.3823	.3214
2.50	1.5630	.9288	.7645	.6173	2.4650	1.4060	.6279	.3823	.3214
2.60	1.5630	.9288	.7645	.6173	2.4650	1.4060	.6279	.4421	.3695
2.70	1.5630	.9288	.7645	.6173	2.4650	1.4060	.6692	.4421	.3695
2.80	1.5630	.9288	.7645	.6173	2.4650	1.4060	.6692	.4421	.3695
2.90	1.7370	.9644	.7645	.6173	2.4650	1.4060	.6692	.4421	.3695
3.00	1.7370	.9644	.7645	.6173	2.4650	1.4060	.6974	.4421	.3695
3.10	1.7370	.9644	.7645	.6173	2.4650	1.4060	.6974	.4421	.3695
3.20	1.7370	.9644	.7645	.6173	2.4650	1.4060	.7693	.4421	.3695
3.30	1.7370	.9644	.7645	.6173	2.4650	1.4060	.7693	.4590	.3833
3.40	1.7370	.9644	.7645	.6173	2.4650	1.4060	.7693	.4590	.3833

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-10 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
3.50	1.7370	.9644	.7645	.6173	2.4650	1.4060	1.0240	.9226	.7693	.4590	.3833	.3128
3.60	1.7370	.9644	.7645	.6173	2.4650	1.4060	1.0240	.9226	.7693	.4590	.3833	.3128
3.70	1.7370	.9644	.7645	.6173	2.4650	1.4060	1.0240	.9226	.7693	.4590	.3833	.3128
3.80	1.7370	.9644	.7645	.6173	2.4650	1.4060	1.0240	.9226	.7693	.4590	.3833	.3128
3.90	1.7370	.9644	.7623	.6032	2.0320	1.2200	1.0240	.8328	.7693	.4590	.3833	.3128
4.00	1.7370	.9644	.7623	.6032	2.0320	1.2200	1.0240	.8328	.7693	.4590	.3833	.3128
4.10	1.7370	.9644	.7623	.6032	2.0320	1.2200	1.0240	.8328	.7693	.4590	.3833	.3128
4.20	1.7370	.9644	.7623	.6032	2.0320	1.2200	1.0240	.8328	.7693	.4590	.3833	.3128
4.30	1.7370	.9644	.7623	.6032	2.0320	1.2200	1.0240	.8328	.7693	.4590	.3833	.3128
4.40	1.7370	.9644	.7623	.6032	2.0320	1.2200	1.0240	.8328	.7693	.4590	.3833	.3128
4.50	1.7370	.9644	.7623	.6032	2.0320	1.2200	1.0240	.8328	.7693	.4590	.3833	.3128
4.60	.9411	.7623	.7623	.6026	2.0320	1.2200	.8328	.8328	.7693	.4590	.3833	.3128
4.70	.9411	.7623	.7623	.6026	2.0320	1.2200	.8273	.7226	.7693	.5164	.4408	.3622
4.80	.9411	.6026	.6026	.6026	2.0320	1.2200	.8273	.7226	.7693	.5164	.4408	.3622
4.90	.9411	.4642	.4375	.4034	2.0320	1.2200	.8273	.7226	.7693	.5164	.4408	.3622
5.00	.9411	.4541	.4264	.3924	1.3170	.9326	.8273	.7226	.7693	.5164	.4408	.3622
5.10	.9411	.4399	.4118	.3790	1.3170	.9326	.8273	.7226	.7219	.5164	.4408	.3622
5.20	.9411	.4215	.3927	.3632	1.3170	.9326	.8273	.7226	.7219	.5164	.4408	.3622
5.30	.9411	.4127	.3839	.3541	1.3170	.9326	.8273	.7226	.7219	.5164	.4408	.3622
5.40	.9411	.4087	.3767	.3466	1.3170	.9326	.8273	.7226	.7219	.5164	.4408	.3622
5.50	.5054	.3953	.3635	.3361	.6235	.5329	.5220	.5069	.7211	.5164	.4408	.3622
5.60	.5054	.3726	.3490	.3250	.6235	.5329	.5145	.4970	.7211	.5164	.4408	.3622
5.70	.5054	.3425	.3305	.3159	.6235	.5329	.5039	.4864	.7211	.5164	.4408	.3622
5.80	.5054	.3266	.3212	.3111	.6235	.5329	.4898	.4750	.7211	.5164	.4408	.3622
5.90	.5054	.3262	.3184	.3080	.6235	.5329	.4737	.4630	.7211	.5164	.4408	.3622
6.00	.5054	.3250	.3152	.3045	.6235	.5329	.4576	.4511	.7211	.5164	.4408	.3622
6.10	.5054	.3205	.3109	.3006	.6235	.5329	.4429	.4398	.7211	.5164	.4408	.3622
6.20	.5054	.3134	.3052	.2961	.6235	.5329	.4301	.4295	.7211	.5164	.4408	.3622
6.30	.5054	.3049	.2986	.2912	.6235	.5329	.4204	.4204	.7211	.5164	.4408	.3622
6.40	.5054	.2959	.2917	.2862	.6235	.5329	.4125	.4125	.7211	.5164	.4408	.3622
6.50	.5054	.2874	.2848	.2811	.6235	.5329	.4057	.4057	.7211	.5164	.4408	.3622
6.60	.3567	.2800	.2782	.2763	.5943	.5329	.4022	.3997	.7211	.5164	.4408	.3622
6.70	.3567	.2739	.2721	.2717	.5943	.5329	.4022	.3942	.7211	.5164	.4408	.3622
6.80	.3567	.2720	.2676	.2676	.5943	.5329	.4022	.3887	.7211	.5164	.4408	.3622

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-10 - Продължение

Hz	L			T			V					
	2%	5%	7%	10%	2%	5%	7%	10%				
6.90	.3567	.2700	.2652	.2640	.5943	.4195	.4022	.3882	.7211	.5164	.4408	.3622
7.00	.3567	.2672	.2632	.2610	.5943	.4195	.4022	.3882	.7211	.5164	.4408	.3622
7.10	.3567	.2665	.2614	.2587	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
7.20	.3567	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
7.30	.3567	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
7.40	.3567	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
7.50	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
7.60	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
7.70	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
7.80	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
7.90	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
8.00	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
8.10	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
8.20	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
8.30	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
8.40	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
8.50	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
8.60	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
8.70	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
8.80	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
8.90	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
9.00	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
9.10	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
9.20	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
9.30	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.6604	.4296	.3664	.3104
9.40	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.4306	.2580	.2580	.2155
9.50	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.4306	.2580	.2580	.2145
9.60	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.4306	.2580	.2580	.2135
9.70	.2902	.2665	.2614	.2573	.5943	.4195	.4022	.3882	.4306	.2580	.2580	.2122
9.80	.2902	.2665	.2611	.2573	.5818	.4195	.4022	.3882	.4306	.2580	.2580	.2106
9.90	.2902	.2665	.2611	.2573	.5818	.4195	.4022	.3882	.4306	.2580	.2580	.2088
10.00	.2902	.2611	.2611	.2573	.5818	.4195	.4022	.3882	.3530	.2580	.2580	.2065
10.10	.2826	.2611	.2611	.2573	.5818	.4195	.4022	.3882	.3530	.2580	.2580	.2047
10.20	.2826	.2611	.2611	.2573	.5818	.4195	.4022	.3882	.3530	.2580	.2580	.2032

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-10 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
10.30	.2826	.2611	.2611	.2573	.5818	.4195	.4022	.3882	.3530	.2580	.2580	.2013
10.40	.2826	.2611	.2611	.2573	.5818	.4195	.4022	.3882	.3530	.2580	.2580	.1992
10.50	.2826	.2611	.2611	.2573	.5818	.4195	.4022	.3661	.3530	.2377	.2056	.1969
10.60	.2826	.2611	.2611	.2573	.5818	.4195	.3698	.3656	.3013	.2377	.2023	.1946
10.70	.2826	.2611	.2611	.2573	.5818	.4179	.3690	.3650	.3013	.2377	.1992	.1922
10.80	.2826	.2611	.2611	.2573	.5818	.4179	.3680	.3644	.3013	.2377	.1962	.1897
10.90	.2826	.2611	.2611	.2573	.5818	.4179	.3669	.3637	.3013	.2377	.1933	.1872
11.00	.2826	.2611	.2611	.2573	.4164	.3747	.3658	.3631	.3013	.2377	.1910	.1847
11.10	.2826	.2611	.2611	.2573	.4164	.3747	.3651	.3625	.3013	.2377	.1890	.1822
11.20	.2826	.2611	.2611	.2573	.4164	.3747	.3651	.3620	.3013	.2377	.1868	.1811
11.30	.2826	.2611	.2611	.2573	.4164	.3747	.3651	.3615	.3013	.2377	.1844	.1807
11.40	.2826	.2611	.2611	.2573	.4164	.3747	.3651	.3611	.3013	.2377	.1844	.1802
11.50	.2826	.2611	.2611	.2573	.4164	.3747	.3651	.3606	.3013	.2377	.1844	.1797
11.60	.2826	.2608	.2561	.2546	.4164	.3747	.3651	.3601	.3013	.2377	.1844	.1790
11.70	.2826	.2608	.2561	.2546	.4164	.3747	.3651	.3596	.3013	.2377	.1844	.1782
11.80	.2826	.2608	.2561	.2546	.4164	.3747	.3651	.3590	.3013	.2377	.1844	.1772
11.90	.2826	.2608	.2561	.2546	.4164	.3747	.3651	.3585	.3013	.2377	.1844	.1761
12.00	.2826	.2608	.2561	.2546	.4164	.3747	.3651	.3584	.3013	.2377	.1844	.1749
12.10	.2826	.2608	.2561	.2546	.4033	.3747	.3651	.3581	.3013	.2377	.1844	.1735
12.20	.2826	.2608	.2561	.2546	.4033	.3747	.3651	.3577	.3013	.2377	.1844	.1721
12.30	.2826	.2608	.2561	.2546	.4033	.3747	.3651	.3572	.2286	.1907	.1844	.1706
12.40	.2826	.2608	.2561	.2546	.4033	.3747	.3651	.3565	.2286	.1907	.1844	.1691
12.50	.2826	.2608	.2561	.2546	.4033	.3747	.3651	.3557	.2286	.1907	.1844	.1691
12.60	.2826	.2608	.2561	.2523	.4033	.3747	.3651	.3547	.2286	.1907	.1844	.1691
12.70	.2826	.2608	.2561	.2523	.4033	.3747	.3651	.3537	.2286	.1907	.1844	.1691
12.80	.2826	.2608	.2561	.2523	.4033	.3747	.3651	.3526	.2286	.1907	.1844	.1691
12.90	.2826	.2608	.2561	.2523	.3950	.3747	.3651	.3514	.2286	.1907	.1844	.1691
13.00	.2826	.2608	.2561	.2523	.3950	.3747	.3651	.3502	.2286	.1907	.1844	.1691
13.10	.2826	.2608	.2561	.2523	.3950	.3711	.3651	.3490	.2286	.1907	.1844	.1691
13.20	.2826	.2606	.2561	.2523	.3950	.3711	.3651	.3477	.2196	.1907	.1844	.1691
13.30	.2826	.2606	.2559	.2523	.3950	.3711	.3651	.3465	.2196	.1907	.1844	.1691
13.40	.2826	.2606	.2555	.2523	.3950	.3711	.3651	.3454	.2196	.1907	.1844	.1691
13.50	.2826	.2606	.2551	.2523	.3950	.3711	.3651	.3443	.2196	.1907	.1844	.1691
13.60	.2826	.2606	.2546	.2523	.3950	.3711	.3651	.3432	.2196	.1907	.1844	.1691

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-10 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
13.70	.2826	.2606	.2542	.2523	.3950	.3711	.3651	.3421	.2196	.1907	.1844	.1691
13.80	.2826	.2606	.2541	.2523	.3950	.3711	.3651	.3411	.2196	.1907	.1844	.1691
13.90	.2826	.2606	.2540	.2523	.3950	.3711	.3651	.3402	.2196	.1907	.1844	.1691
14.00	.2826	.2606	.2538	.2523	.3950	.3711	.3651	.3392	.2196	.1907	.1844	.1691
14.10	.2826	.2606	.2535	.2523	.3950	.3711	.3651	.3384	.2196	.1907	.1844	.1691
14.20	.2826	.2606	.2531	.2523	.3950	.3711	.3651	.3375	.2196	.1907	.1844	.1691
14.30	.2826	.2606	.2526	.2523	.3950	.3711	.3651	.3366	.2196	.1907	.1741	.1691
14.40	.2826	.2606	.2523	.2523	.3950	.3711	.3651	.3358	.2051	.1803	.1741	.1691
14.50	.2826	.2606	.2523	.2523	.3950	.3711	.3651	.3350	.2051	.1803	.1741	.1691
14.60	.2826	.2606	.2523	.2523	.3950	.3711	.3645	.3343	.2051	.1803	.1741	.1691
14.70	.2826	.2606	.2523	.2523	.3950	.3711	.3645	.3336	.2051	.1803	.1741	.1691
14.80	.2826	.2606	.2523	.2523	.3950	.3711	.3645	.3329	.2051	.1803	.1741	.1691
14.90	.2826	.2606	.2523	.2523	.3950	.3711	.3645	.3323	.2051	.1803	.1741	.1691
15.00	.2826	.2606	.2523	.2523	.3950	.3711	.3645	.3317	.2051	.1803	.1741	.1691
15.10	.2826	.2606	.2523	.2523	.3950	.3711	.3645	.3313	.2051	.1803	.1741	.1686
15.20	.2826	.2606	.2523	.2523	.3950	.3711	.3308	.3308	.2051	.1803	.1741	.1685
15.30	.2826	.2606	.2523	.2523	.3950	.3304	.3304	.3304	.2051	.1803	.1741	.1683
15.40	.2826	.2606	.2523	.2523	.3471	.3300	.3300	.3300	.2051	.1803	.1741	.1681
15.50	.2826	.2606	.2523	.2523	.3471	.3296	.3296	.3296	.2051	.1803	.1741	.1677
15.60	.2826	.2606	.2523	.2523	.3471	.3292	.3292	.3292	.2051	.1803	.1741	.1673
15.70	.2801	.2606	.2523	.2523	.3471	.3292	.3289	.3289	.2051	.1803	.1741	.1668
15.80	.2801	.2606	.2523	.2523	.3471	.3292	.3286	.3286	.2051	.1803	.1741	.1663
15.90	.2801	.2523	.2523	.2523	.3471	.3292	.3284	.3284	.2051	.1803	.1741	.1658
16.00	.2801	.2523	.2523	.2523	.3471	.3292	.3283	.3281	.2051	.1803	.1741	.1653
16.10	.2801	.2523	.2523	.2523	.3471	.3292	.3282	.3278	.2051	.1803	.1741	.1648
16.20	.2672	.2523	.2523	.2523	.3471	.3292	.3281	.3276	.2051	.1803	.1741	.1643
16.30	.2672	.2523	.2523	.2523	.3471	.3292	.3279	.3273	.2051	.1803	.1741	.1638
16.40	.2672	.2428	.2428	.2428	.3471	.3292	.3277	.3271	.2051	.1803	.1741	.1633
16.50	.2672	.2425	.2425	.2425	.3471	.3292	.3274	.3268	.2051	.1803	.1741	.1629
16.60	.2672	.2422	.2422	.2422	.3471	.3292	.3271	.3265	.2051	.1803	.1741	.1625
16.70	.2672	.2422	.2419	.2419	.3471	.3292	.3267	.3262	.2051	.1803	.1741	.1621
16.80	.2672	.2422	.2417	.2417	.3471	.3292	.3264	.3260	.2051	.1803	.1741	.1616
16.90	.2672	.2422	.2416	.2414	.3471	.3292	.3261	.3257	.2051	.1803	.1741	.1613
17.00	.2672	.2422	.2416	.2413	.3471	.3292	.3257	.3254	.2051	.1803	.1741	.1609

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-10 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
17.10	.2672	.2422	.2416	.2413	.3471	.3292	.3254	.3251	.2051	.1803	.1741	.1605
17.20	.2672	.2422	.2416	.2413	.3471	.3292	.3251	.3249	.2051	.1803	.1741	.1601
17.30	.2672	.2422	.2416	.2413	.3471	.3292	.3249	.3246	.2051	.1803	.1741	.1597
17.40	.2557	.2422	.2416	.2413	.3471	.3292	.3246	.3243	.2051	.1803	.1741	.1593
17.50	.2557	.2422	.2416	.2413	.3383	.3292	.3243	.3241	.2051	.1803	.1741	.1589
17.60	.2557	.2422	.2416	.2413	.3383	.3292	.3241	.3238	.2051	.1803	.1741	.1586
17.70	.2557	.2422	.2416	.2413	.3383	.3292	.3239	.3236	.2051	.1803	.1741	.1582
17.80	.2557	.2422	.2416	.2413	.3383	.3292	.3236	.3233	.2051	.1803	.1741	.1578
17.90	.2557	.2422	.2416	.2413	.3383	.3292	.3234	.3231	.2051	.1803	.1741	.1575
18.00	.2557	.2422	.2416	.2413	.3383	.3292	.3231	.3228	.2051	.1803	.1741	.1572
18.10	.2557	.2422	.2416	.2413	.3383	.3292	.3228	.3226	.2051	.1803	.1741	.1569
18.20	.2557	.2422	.2416	.2413	.3383	.3292	.3226	.3224	.2051	.1803	.1741	.1566
18.30	.2557	.2422	.2416	.2413	.3383	.3292	.3223	.3221	.2051	.1803	.1741	.1563
18.40	.2557	.2422	.2416	.2413	.3383	.3292	.3220	.3219	.2051	.1803	.1741	.1561
18.50	.2557	.2422	.2416	.2413	.3383	.3292	.3218	.3217	.2051	.1803	.1741	.1558
18.60	.2557	.2422	.2416	.2413	.3383	.3292	.3215	.3214	.2051	.1803	.1741	.1556
18.70	.2557	.2422	.2416	.2413	.3383	.3292	.3212	.3212	.2051	.1800	.1554	.1554
18.80	.2557	.2422	.2416	.2413	.3383	.3292	.3210	.3210	.2051	.1800	.1552	.1552
18.90	.2557	.2422	.2416	.2413	.3383	.3292	.3208	.3208	.1706	.1551	.1551	.1551
19.00	.2455	.2422	.2416	.2413	.3383	.3292	.3206	.3206	.1706	.1549	.1549	.1549
19.10	.2455	.2422	.2416	.2413	.3383	.3292	.3204	.3204	.1706	.1548	.1548	.1548
19.20	.2455	.2422	.2416	.2413	.3383	.3292	.3202	.3202	.1706	.1547	.1547	.1547
19.30	.2455	.2422	.2416	.2413	.3383	.3292	.3200	.3200	.1706	.1545	.1545	.1545
19.40	.2455	.2422	.2416	.2413	.3383	.3292	.3198	.3198	.1706	.1544	.1544	.1544
19.50	.2455	.2422	.2416	.2413	.3383	.3292	.3196	.3196	.1706	.1543	.1543	.1543
19.60	.2455	.2422	.2416	.2413	.3383	.3292	.3194	.3194	.1706	.1542	.1542	.1542
19.70	.2455	.2422	.2416	.2413	.3383	.3292	.3192	.3192	.1706	.1541	.1541	.1541
19.80	.2455	.2422	.2416	.2413	.3383	.3292	.3191	.3191	.1706	.1541	.1541	.1541
19.90	.2455	.2422	.2416	.2413	.3383	.3292	.3189	.3189	.1706	.1540	.1540	.1540
20.00	.2455	.2422	.2416	.2413	.3292	.3292	.3187	.3187	.1706	.1539	.1539	.1539
20.10	.2455	.2422	.2416	.2413	.3259	.3187	.3187	.3187	.1706	.1539	.1539	.1539
20.20	.2455	.2422	.2416	.2413	.3259	.3185	.3185	.3185	.1706	.1538	.1538	.1538
20.30	.2455	.2422	.2416	.2413	.3259	.3184	.3184	.3184	.1706	.1537	.1537	.1537
20.40	.2455	.2422	.2416	.2413	.3259	.3182	.3182	.3182	.1706	.1536	.1536	.1536

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-10 - Продължение

Hz	I				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
20.50	.2455	.2422	.2416	.2413	.3259	.3181	.3181	.3181	.1706	.1536	.1535	.1535
20.60	.2455	.2422	.2416	.2413	.3259	.3180	.3180	.3180	.1706	.1536	.1535	.1534
20.70	.2455	.2422	.2416	.2413	.3259	.3179	.3179	.3179	.1706	.1536	.1534	.1534
20.80	.2455	.2422	.2416	.2413	.3259	.3177	.3177	.3177	.1706	.1536	.1533	.1533
20.90	.2455	.2422	.2416	.2413	.3259	.3176	.3176	.3176	.1706	.1535	.1533	.1532
21.00	.2455	.2422	.2416	.2412	.3259	.3175	.3175	.3175	.1706	.1534	.1532	.1531
21.10	.2455	.2422	.2416	.2412	.3259	.3174	.3174	.3174	.1705	.1533	.1531	.1530
21.20	.2455	.2422	.2416	.2412	.3259	.3173	.3173	.3173	.1705	.1532	.1529	.1529
21.30	.2455	.2422	.2416	.2412	.3259	.3172	.3172	.3172	.1705	.1530	.1528	.1528
21.40	.2455	.2422	.2416	.2412	.3259	.3171	.3171	.3171	.1558	.1528	.1527	.1527
21.50	.2455	.2422	.2416	.2412	.3259	.3170	.3170	.3170	.1558	.1526	.1526	.1526
21.60	.2455	.2422	.2416	.2412	.3259	.3169	.3169	.3169	.1558	.1525	.1525	.1525
21.70	.2455	.2422	.2416	.2412	.3259	.3168	.3168	.3168	.1558	.1525	.1525	.1525
21.80	.2455	.2422	.2416	.2412	.3259	.3167	.3167	.3167	.1558	.1524	.1524	.1524
21.90	.2455	.2422	.2416	.2412	.3259	.3167	.3167	.3167	.1558	.1523	.1523	.1523
22.00	.2455	.2422	.2416	.2412	.3259	.3166	.3166	.3166	.1558	.1522	.1522	.1522
22.10	.2455	.2422	.2416	.2412	.3259	.3166	.3166	.3166	.1558	.1521	.1521	.1521
22.20	.2455	.2422	.2416	.2412	.3208	.3166	.3165	.3165	.1558	.1521	.1521	.1521
22.30	.2455	.2422	.2416	.2412	.3208	.3166	.3165	.3165	.1558	.1520	.1520	.1520
22.40	.2455	.2422	.2416	.2412	.3208	.3166	.3165	.3165	.1558	.1519	.1519	.1519
22.50	.2455	.2422	.2416	.2412	.3208	.3165	.3165	.3165	.1558	.1519	.1519	.1519
22.60	.2455	.2422	.2416	.2412	.3208	.3165	.3165	.3165	.1558	.1518	.1518	.1518
22.70	.2455	.2422	.2416	.2412	.3208	.3165	.3164	.3164	.1558	.1517	.1517	.1517
22.80	.2455	.2422	.2416	.2412	.3208	.3165	.3164	.3164	.1558	.1517	.1517	.1517
22.90	.2455	.2422	.2416	.2412	.3208	.3164	.3164	.3164	.1558	.1516	.1516	.1516
23.00	.2455	.2422	.2416	.2412	.3208	.3164	.3163	.3163	.1558	.1516	.1516	.1516
23.10	.2455	.2422	.2416	.2412	.3208	.3163	.3163	.3163	.1558	.1516	.1515	.1515
23.20	.2455	.2422	.2416	.2412	.3208	.3163	.3163	.3163	.1558	.1516	.1515	.1515
23.30	.2455	.2422	.2416	.2412	.3208	.3163	.3162	.3162	.1558	.1516	.1514	.1514
23.40	.2455	.2422	.2416	.2412	.3208	.3162	.3162	.3162	.1558	.1516	.1514	.1514
23.50	.2455	.2422	.2416	.2412	.3208	.3162	.3162	.3162	.1558	.1515	.1513	.1513
23.60	.2455	.2422	.2416	.2412	.3208	.3162	.3162	.3162	.1558	.1515	.1513	.1513
23.70	.2455	.2422	.2416	.2412	.3208	.3161	.3161	.3161	.1558	.1514	.1512	.1512
23.80	.2455	.2422	.2416	.2412	.3208	.3161	.3161	.3161	.1558	.1513	.1512	.1512

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-10 – Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
23.90	.2452	.2422	.2416	.2412	.3208	.3161	.3161	.3161	.1558	.1512	.1511	.1511
24.00	.2446	.2422	.2416	.2412	.3185	.3160	.3160	.3160	.1558	.1511	.1510	.1510
24.10	.2442	.2422	.2416	.2412	.3185	.3160	.3160	.3160	.1558	.1510	.1510	.1510
24.20	.2442	.2422	.2416	.2412	.3185	.3160	.3160	.3160	.1558	.1509	.1509	.1509
24.30	.2442	.2422	.2415	.2412	.3185	.3160	.3160	.3160	.1558	.1509	.1509	.1509
24.40	.2442	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1558	.1508	.1508	.1508
24.50	.2442	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1508	.1508	.1508
24.60	.2442	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1507	.1507	.1507
24.70	.2442	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1507	.1507	.1507
24.80	.2442	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1506	.1506	.1506
24.90	.2442	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1506	.1506	.1506
25.00	.2442	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1505	.1505	.1505
25.10	.2441	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1503	.1503	.1503
25.20	.2441	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1503	.1503	.1503
25.30	.2441	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1502	.1502	.1502
25.40	.2441	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1502	.1502	.1502
25.50	.2441	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1501	.1501	.1501
25.60	.2441	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1501	.1501	.1501
25.70	.2441	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1500	.1500	.1500
25.80	.2441	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1500	.1500	.1500
25.90	.2441	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1500	.1500	.1500
26.00	.2441	.2422	.2415	.2412	.3185	.3159	.3159	.3159	.1530	.1499	.1499	.1499
26.10	.2441	.2422	.2415	.2409	.3185	.3159	.3159	.3159	.1530	.1499	.1499	.1499
26.20	.2441	.2422	.2415	.2409	.3185	.3159	.3159	.3159	.1530	.1499	.1499	.1499
26.30	.2441	.2422	.2415	.2409	.3185	.3159	.3159	.3159	.1530	.1498	.1498	.1498
26.40	.2440	.2422	.2415	.2408	.3185	.3159	.3159	.3159	.1530	.1498	.1498	.1498
26.50	.2435	.2422	.2415	.2408	.3185	.3159	.3159	.3159	.1530	.1498	.1498	.1498
26.60	.2429	.2422	.2415	.2408	.3185	.3159	.3159	.3159	.1530	.1498	.1497	.1497
26.70	.2424	.2422	.2415	.2407	.3185	.3159	.3159	.3159	.1530	.1498	.1497	.1497
26.80	.2422	.2422	.2415	.2407	.3185	.3159	.3159	.3159	.1530	.1498	.1496	.1496
26.90	.2422	.2422	.2415	.2407	.3185	.3159	.3159	.3159	.1530	.1497	.1496	.1496
27.00	.2422	.2422	.2415	.2406	.3185	.3159	.3159	.3159	.1530	.1497	.1496	.1496
27.10	.2422	.2422	.2415	.2406	.3185	.3159	.3159	.3159	.1530	.1497	.1496	.1495
27.20	.2422	.2422	.2415	.2406	.3185	.3159	.3159	.3159	.1530	.1497	.1496	.1495

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-10 - Продължение

Hz	L				T			V		
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%
27.30	.2422	.2422	.2415	.2405	.3185	.3159	.3159	.3159	.1530	.1497
27.40	.2422	.2422	.2415	.2405	.3185	.3159	.3159	.3159	.1530	.1496
27.50	.2422	.2422	.2415	.2405	.3185	.3159	.3159	.3159	.1530	.1496
27.60	.2422	.2422	.2415	.2405	.3185	.3159	.3159	.3159	.1530	.1496
27.70	.2422	.2422	.2415	.2405	.3185	.3159	.3159	.3159	.1530	.1495
27.80	.2422	.2422	.2415	.2404	.3185	.3159	.3159	.3159	.1530	.1495
27.90	.2422	.2422	.2415	.2404	.3185	.3159	.3159	.3159	.1530	.1495
28.00	.2422	.2422	.2415	.2404	.3185	.3159	.3159	.3159	.1530	.1495
28.10	.2422	.2422	.2415	.2404	.3185	.3159	.3159	.3159	.1530	.1495
28.20	.2422	.2422	.2415	.2404	.3185	.3159	.3159	.3159	.1530	.1495
28.30	.2422	.2422	.2415	.2403	.3185	.3159	.3159	.3159	.1530	.1495
28.40	.2422	.2422	.2415	.2403	.3185	.3159	.3159	.3159	.1530	.1495
28.50	.2422	.2422	.2415	.2403	.3185	.3159	.3159	.3159	.1530	.1495
28.60	.2422	.2422	.2415	.2403	.3159	.3159	.3159	.3159	.1530	.1495
28.70	.2422	.2422	.2415	.2403	.3159	.3159	.3159	.3159	.1496	.1495
28.80	.2422	.2422	.2415	.2403	.3159	.3159	.3159	.3159	.1496	.1495
28.90	.2422	.2422	.2415	.2403	.3159	.3159	.3159	.3159	.1496	.1495
29.00	.2422	.2422	.2415	.2403	.3159	.3159	.3159	.3159	.1496	.1495
29.10	.2422	.2422	.2415	.2402	.3159	.3159	.3159	.3159	.1495	.1495
29.20	.2422	.2422	.2415	.2402	.3159	.3159	.3159	.3159	.1495	.1495
29.30	.2422	.2422	.2415	.2402	.3159	.3159	.3159	.3159	.1495	.1495
29.40	.2422	.2422	.2415	.2402	.3159	.3159	.3159	.3159	.1495	.1495
29.50	.2422	.2422	.2415	.2402	.3159	.3159	.3159	.3159	.1495	.1495
29.60	.2422	.2422	.2415	.2402	.3159	.3159	.3159	.3159	.1495	.1495
29.70	.2415	.2415	.2415	.2402	.3159	.3159	.3159	.3159	.1495	.1495
29.80	.2415	.2415	.2415	.2401	.3159	.3159	.3159	.3159	.1495	.1495
29.90	.2415	.2415	.2415	.2401	.3159	.3159	.3159	.3159	.1495	.1495
30.00	.2415	.2415	.2415	.2401	.3159	.3159	.3159	.3159	.1495	.1495
30.10	.2415	.2415	.2415	.2401	.3159	.3159	.3159	.3159	.1495	.1495
30.20	.2415	.2415	.2415	.2401	.3159	.3159	.3159	.3159	.1495	.1495
30.30	.2415	.2415	.2415	.2401	.3159	.3159	.3159	.3159	.1495	.1495
30.40	.2415	.2415	.2415	.2400	.3159	.3159	.3159	.3159	.1495	.1495
30.50	.2415	.2415	.2415	.2400	.3159	.3159	.3159	.3159	.1495	.1495
30.60	.2415	.2415	.2415	.2400	.3159	.3159	.3159	.3159	.1495	.1495

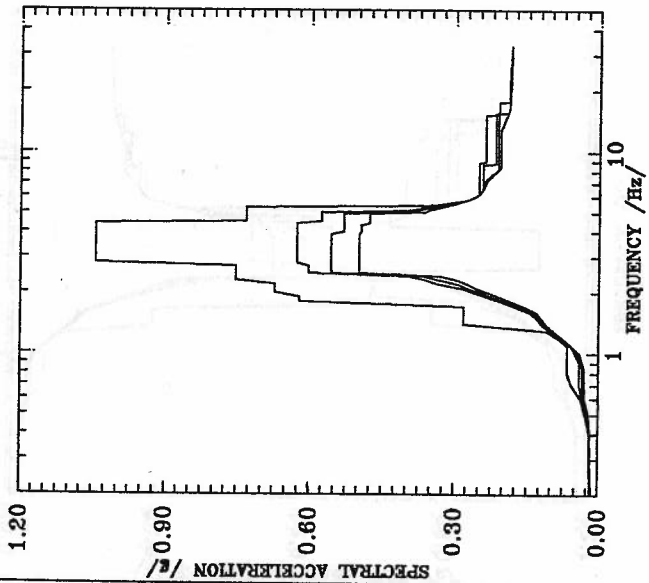
Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-10 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
30.90	.2415	.2415	.2415	.2400	.3159	.3159	.3159	.3159	.1495	.1495	.1495	.1495
31.00	.2415	.2415	.2415	.2400	.3159	.3159	.3159	.3159	.1495	.1495	.1495	.1495
31.10	.2415	.2415	.2415	.2400	.3159	.3159	.3159	.3159	.1495	.1495	.1495	.1495
31.20	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
31.30	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
31.40	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
31.50	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
31.60	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
31.70	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
31.80	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
31.90	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
32.00	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
32.10	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
32.20	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
32.30	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
32.40	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
32.50	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
32.60	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
32.70	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
32.80	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
32.90	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
33.00	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
33.10	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495
33.20	.2403	.2403	.2400	.2400	.3156	.3150	.3150	.3150	.1495	.1495	.1495	.1495

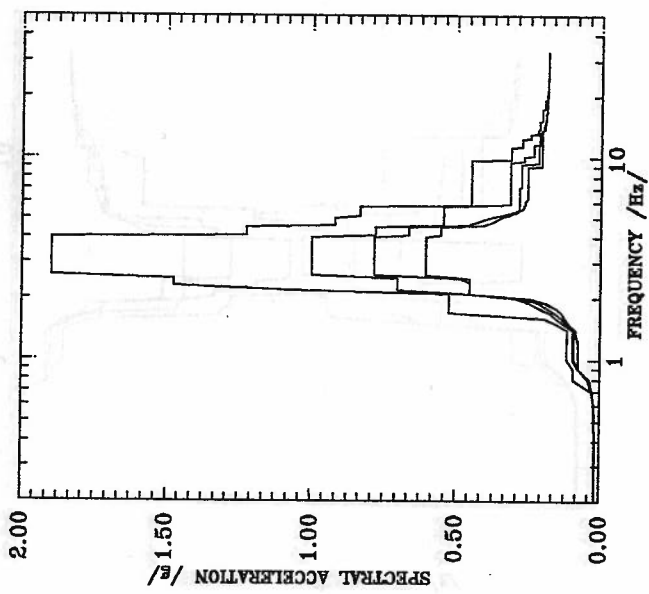
Спектри на реагиране за укрепената конструкция на ХОГ

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 936
COMPONENT L



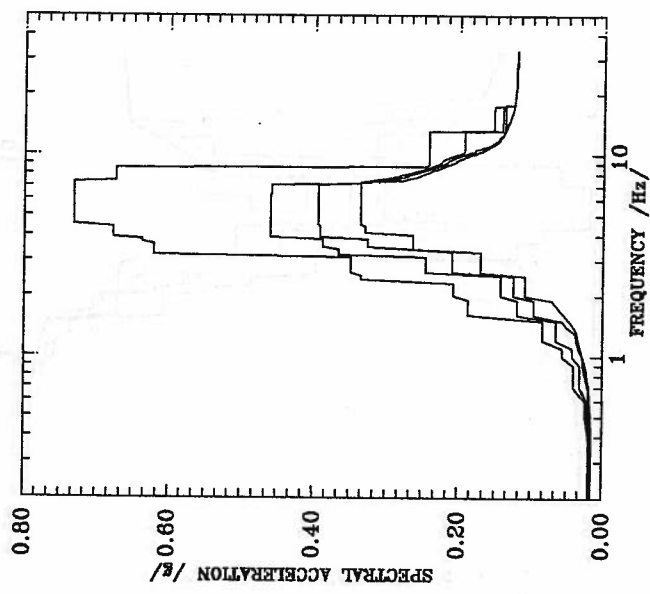
СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 936, КОМПОНЕНТА L

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 936
COMPONENT T



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 936, КОМПОНЕНТА T

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 936
COMPONENT V



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 936, КОМПОНЕНТА V

Фиг.П1-22 Спектри на реагиране.Въздействие - локални земетр. Възел 936

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-22
ЕТАЖНИ СПЕКТРИ НА РЕАГИРАНЕ - ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ
ВЪЗЕЛ 936

Hz	L			T			V					
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
.20	.0167	.0156	.0149	.0142	.0185	.0173	.0166	.0157	.0188	.0173	.0165	.0154
.40	.0175	.0173	.0173	.0173	.0185	.0173	.0172	.0168	.0200	.0183	.0174	.0154
.60	.0382	.0339	.0336	.0296	.0218	.0209	.0207	.0207	.0242	.0214	.0199	.0184
.80	.0665	.0402	.0336	.0296	.0930	.0431	.0397	.0368	.0402	.0314	.0239	.0213
1.00	.0665	.0503	.0443	.0406	.1152	.0971	.0910	.0761	.0562	.0422	.0280	.0280
1.20	.0862	.0812	.0792	.0769	.1152	.0971	.0910	.0761	.0838	.0648	.0367	.0344
1.40	.2818	.1211	.1155	.1108	.1152	.0971	.0910	.0866	.0838	.0648	.0500	.0406
1.60	.2818	.1451	.1376	.1311	.1966	.1557	.1356	.1254	.1869	.1192	.0965	.0540
1.80	.6220	.2041	.1954	.1836	.5245	.2170	.1875	.1563	.1869	.1192	.0965	.0663
2.00	.6730	.2616	.2469	.2329	.5245	.2995	.2726	.2485	.2074	.1423	.1248	.1092
2.20	.6730	.3371	.2949	.2738	1.0780	.7039	.4533	.4533	.2074	.1423	.1248	.1092
2.40	.7524	.3976	.3655	.3309	1.4740	.7039	.4533	.4533	.3345	.1423	.1248	.1092
2.60	.7524	.6033	.5572	.4982	1.8960	.9996	.7828	.6061	.3492	.2457	.2091	.1698
2.80	1.0430	.6279	.5572	.4982	1.8960	.9996	.7828	.6061	.3492	.2457	.2091	.1698
3.00	1.0430	.6279	.5572	.4982	1.8960	.9996	.7828	.6061	.3492	.2457	.2091	.1698
3.20	1.0430	.6279	.5572	.4982	1.8960	.9996	.7828	.6061	.6208	.3661	.2091	.1698
3.40	1.0430	.6279	.5572	.4982	1.8960	.9996	.7828	.6061	.6208	.3661	.2633	.2633
3.60	1.0430	.6279	.5572	.4982	1.8960	.9996	.7828	.6061	.6208	.3880	.3254	.2636
3.80	1.0430	.6279	.5572	.4982	1.8960	.9996	.7828	.6061	.6373	.3880	.3254	.2636
4.00	1.0430	.6279	.5298	.4933	1.8960	.9996	.7828	.6061	.6772	.4596	.3913	.2636
4.20	1.0430	.6279	.5298	.4933	1.2230	.7792	.6664	.5555	.6772	.4596	.3913	.3290
4.40	1.0430	.6279	.5298	.4760	1.2230	.7792	.6664	.5555	.6772	.4596	.3913	.3290
4.60	.7314	.5771	.5298	.4760	.9197	.5458	.4600	.4083	.7313	.4596	.3942	.3359
4.80	.7314	.5771	.5298	.4760	.9197	.5458	.4303	.3753	.7313	.4596	.3942	.3359
5.00	.7314	.5771	.3939	.3633	.9197	.5458	.3913	.3534	.7313	.4596	.3942	.3359
5.20	.7314	.3780	.3618	.3410	.8315	.5458	.3459	.3208	.7313	.4596	.3942	.3359
5.40	.3565	.3357	.3265	.3155	.8315	.5458	.3027	.2938	.7313	.4596	.3942	.3359
5.60	.3050	.2999	.2951	.2917	.8315	.5458	.2846	.2736	.7313	.4596	.3942	.3359
5.80	.2724	.2724	.2724	.2724	.4488	.4316	.2846	.2687	.7313	.4596	.3942	.3359
6.00	.2585	.2585	.2585	.2585	.4488	.3174	.2846	.2650	.7313	.4596	.3942	.3359
6.20	.2516	.2496	.2496	.2496	.4488	.3174	.2846	.2601	.7313	.4596	.3942	.3359
6.40	.2516	.2444	.2444	.2444	.4488	.3174	.2846	.2566	.7313	.4583	.3942	.3359
6.60	.2516	.2434	.2414	.2414	.4488	.3174	.2846	.2566	.7313	.4583	.3942	.3359

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-22 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
6.80	.2516	.2434	.2410	.2392	.4488	.3174	.2846	.2566	.7313	.4583	.3942	.3359
7.00	.2516	.2434	.2401	.2368	.4488	.3174	.2846	.2566	.7313	.4583	.3942	.3359
7.20	.2516	.2434	.2376	.2337	.4488	.3174	.2797	.2566	.7313	.3362	.3359	.3359
7.40	.2516	.2434	.2333	.2298	.4488	.3174	.2797	.2566	.6734	.3204	.3019	.2786
7.60	.2516	.2434	.2277	.2251	.4488	.3174	.2797	.2566	.6734	.3001	.2858	.2667
7.80	.2516	.2434	.2225	.2201	.4488	.3174	.2797	.2566	.6734	.2864	.2731	.2552
8.00	.2516	.2434	.2165	.2152	.4488	.3174	.2797	.2566	.6734	.2734	.2630	.2480
8.20	.2516	.2434	.2122	.2108	.4488	.3174	.2797	.2566	.6734	.2613	.2529	.2403
8.40	.2516	.2434	.2122	.2073	.4488	.3174	.2797	.2566	.6734	.2507	.2436	.2325
8.60	.2516	.2434	.2122	.2070	.4488	.3174	.2797	.2566	.6734	.2417	.2351	.2250
8.80	.2516	.2183	.2122	.2070	.4488	.3174	.2797	.2566	.2436	.2341	.2274	.2177
9.00	.2378	.2183	.2122	.2070	.4488	.3174	.2797	.2566	.2417	.2272	.2199	.2103
9.20	.2378	.2183	.2122	.2070	.4488	.3174	.2797	.2083	.2417	.2246	.2160	.2046
9.40	.2378	.2183	.2122	.2070	.4488	.3174	.2192	.2083	.2417	.2217	.2122	.2004
9.60	.2378	.2183	.2122	.2070	.4488	.2694	.2192	.2083	.2417	.2172	.2072	.1954
9.80	.2378	.2183	.2122	.2070	.3139	.2694	.2192	.2083	.2417	.2104	.2006	.1894
10.00	.2378	.2183	.2122	.2070	.3139	.2694	.2192	.2083	.2417	.2012	.1925	.1827
10.20	.2378	.2183	.2122	.2070	.3139	.2356	.2192	.2083	.2417	.1943	.1857	.1759
10.40	.2378	.2183	.2122	.2070	.3139	.2356	.2192	.2083	.2417	.1932	.1793	.1689
10.60	.2378	.2183	.2122	.2070	.3139	.2356	.2192	.2083	.2417	.1932	.1769	.1652
10.80	.2378	.2183	.2122	.2070	.3139	.2356	.2192	.2083	.2417	.1932	.1702	.1616
11.00	.2378	.2183	.2122	.2070	.3139	.2356	.2192	.2083	.2417	.1932	.1615	.1574
11.20	.2378	.2183	.2122	.2070	.3139	.2356	.2192	.2083	.2417	.1932	.1570	.1532
11.40	.2378	.2183	.2122	.2070	.2765	.2356	.2192	.2083	.2417	.1932	.1537	.1498
11.60	.2378	.2183	.2122	.2070	.2765	.2356	.2192	.2083	.2417	.1932	.1502	.1473
11.80	.2378	.2183	.2122	.2070	.2765	.2164	.2083	.2083	.2417	.1932	.1479	.1455
12.00	.2378	.2183	.2122	.2070	.2765	.2164	.2083	.2083	.2417	.1932	.1455	.1440
12.20	.2378	.2183	.2122	.2070	.2765	.2164	.2083	.2083	.2417	.1932	.1442	.1426
12.40	.2378	.2183	.2122	.2070	.2765	.2164	.2083	.2083	.2417	.1932	.1425	.1412
12.60	.2378	.2183	.2122	.2070	.2485	.2164	.2083	.2083	.2417	.1932	.1408	.1399
12.80	.2378	.2183	.2122	.2065	.2485	.2164	.2083	.2083	.2417	.1932	.1395	.1388
13.00	.2378	.2183	.2122	.2057	.2485	.2164	.2083	.2083	.2417	.1932	.1386	.1378
13.20	.2378	.2183	.2122	.2047	.2229	.2164	.2083	.2083	.1531	.1413	.1381	.1370
13.40	.2378	.2183	.2122	.2036	.2229	.2083	.2083	.2083	.1531	.1413	.1380	.1363

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-22 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
13.60	.2378	.2183	.2122	.2025	.2229	.2083	.2083	.2083	.1531	.1413	.1379	.1356
13.80	.2378	.2183	.2122	.2014	.2172	.2011	.2001	.1995	.1531	.1413	.1378	.1349
14.00	.2378	.2183	.2122	.2007	.2172	.2011	.1999	.1991	.1531	.1413	.1374	.1341
14.20	.2378	.2183	.2122	.1999	.2172	.2009	.1996	.1986	.1531	.1413	.1374	.1338
14.40	.2378	.2183	.2122	.1989	.2172	.2000	.1989	.1981	.1531	.1413	.1374	.1332
14.60	.2378	.2183	.2122	.1979	.2172	.1986	.1980	.1975	.1531	.1411	.1374	.1324
14.80	.2378	.2183	.2122	.1967	.2172	.1971	.1971	.1968	.1531	.1411	.1374	.1314
15.00	.2378	.2183	.2122	.1956	.2172	.1963	.1963	.1962	.1531	.1411	.1374	.1309
15.20	.2378	.2177	.2120	.1943	.2083	.1957	.1957	.1957	.1531	.1411	.1374	.1304
15.40	.2177	.2177	.2120	.1933	.2083	.1951	.1951	.1951	.1531	.1411	.1374	.1299
15.60	.2116	.1925	.1925	.1925	.2083	.1946	.1946	.1946	.1531	.1411	.1374	.1295
15.80	.2116	.1917	.1917	.1917	.2083	.1941	.1941	.1941	.1531	.1411	.1374	.1290
16.00	.2116	.1911	.1911	.1911	.2083	.1937	.1937	.1937	.1531	.1411	.1374	.1284
16.20	.2116	.1906	.1906	.1906	.2083	.1934	.1934	.1934	.1531	.1411	.1374	.1279
16.40	.2116	.1902	.1902	.1902	.2083	.1931	.1931	.1931	.1531	.1411	.1374	.1273
16.60	.2116	.1898	.1898	.1898	.2083	.1929	.1929	.1929	.1531	.1411	.1374	.1269
16.80	.2116	.1895	.1895	.1895	.2083	.1927	.1927	.1927	.1522	.1411	.1374	.1264
17.00	.2116	.1893	.1893	.1893	.2083	.1926	.1926	.1926	.1522	.1411	.1374	.1260
17.20	.2116	.1891	.1891	.1891	.2083	.1925	.1925	.1925	.1522	.1411	.1374	.1258
17.40	.2116	.1890	.1890	.1890	.2083	.1924	.1924	.1924	.1522	.1374	.1374	.1255
17.60	.2116	.1889	.1889	.1889	.2083	.1923	.1922	.1922	.1374	.1374	.1374	.1254
17.80	.1891	.1889	.1889	.1889	.1987	.1922	.1921	.1921	.1266	.1252	.1252	.1252
18.00	.1891	.1888	.1888	.1888	.1987	.1921	.1920	.1920	.1256	.1251	.1251	.1251
18.20	.1891	.1887	.1887	.1887	.1987	.1920	.1919	.1919	.1253	.1250	.1250	.1250
18.40	.1891	.1887	.1887	.1887	.1987	.1919	.1918	.1917	.1251	.1248	.1248	.1248
18.60	.1891	.1886	.1886	.1886	.1987	.1918	.1917	.1916	.1248	.1247	.1247	.1247
18.80	.1891	.1885	.1885	.1885	.1987	.1917	.1916	.1915	.1246	.1246	.1246	.1246
19.00	.1891	.1885	.1885	.1885	.1987	.1915	.1914	.1914	.1245	.1245	.1245	.1245
19.20	.1891	.1884	.1884	.1884	.1987	.1914	.1913	.1912	.1243	.1243	.1243	.1243
19.40	.1891	.1883	.1883	.1883	.1916	.1913	.1912	.1911	.1243	.1242	.1242	.1242
19.60	.1891	.1882	.1882	.1882	.1915	.1911	.1910	.1910	.1242	.1241	.1241	.1241
19.80	.1891	.1881	.1881	.1881	.1911	.1910	.1909	.1908	.1242	.1240	.1239	.1239
20.00	.1891	.1881	.1881	.1881	.1909	.1908	.1908	.1907	.1241	.1239	.1238	.1238
20.20	.1891	.1880	.1880	.1880	.1909	.1907	.1906	.1906	.1240	.1237	.1237	.1237

Спектри на реазиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-22 - Продължение

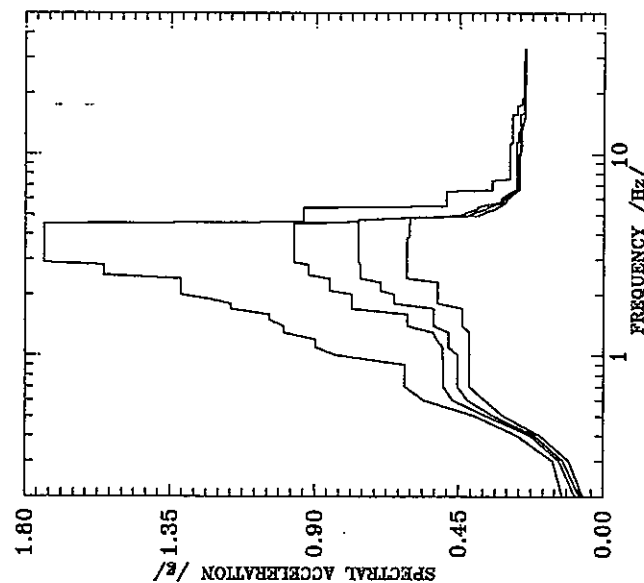
Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
20.40	.1891	.1879	.1879	.1879	.1908	.1905	.1905	.1905	.1239	.1235	.1235	.1235
20.60	.1891	.1878	.1878	.1878	.1905	.1903	.1903	.1903	.1238	.1234	.1234	.1234
20.80	.1891	.1877	.1877	.1877	.1904	.1902	.1902	.1902	.1236	.1232	.1232	.1232
21.00	.1891	.1876	.1876	.1876	.1904	.1901	.1901	.1901	.1234	.1231	.1231	.1231
21.20	.1891	.1876	.1876	.1876	.1904	.1900	.1900	.1900	.1232	.1230	.1230	.1230
21.40	.1891	.1876	.1875	.1875	.1904	.1899	.1899	.1899	.1232	.1228	.1228	.1228
21.60	.1891	.1876	.1875	.1875	.1904	.1899	.1898	.1898	.1232	.1227	.1227	.1227
21.80	.1891	.1876	.1874	.1874	.1904	.1899	.1898	.1897	.1232	.1226	.1226	.1226
22.00	.1891	.1876	.1874	.1874	.1904	.1898	.1897	.1896	.1232	.1226	.1225	.1225
22.20	.1891	.1876	.1874	.1874	.1904	.1898	.1896	.1895	.1232	.1226	.1224	.1224
22.40	.1891	.1876	.1874	.1873	.1902	.1897	.1895	.1894	.1232	.1226	.1223	.1223
22.60	.1891	.1876	.1873	.1873	.1902	.1896	.1894	.1893	.1232	.1226	.1223	.1222
22.80	.1890	.1875	.1873	.1872	.1900	.1895	.1893	.1892	.1232	.1226	.1223	.1222
23.00	.1888	.1873	.1872	.1871	.1896	.1893	.1892	.1891	.1232	.1226	.1223	.1222
23.20	.1882	.1871	.1871	.1871	.1892	.1892	.1891	.1890	.1232	.1226	.1223	.1222
23.40	.1882	.1871	.1870	.1870	.1890	.1890	.1890	.1889	.1232	.1226	.1223	.1222
23.60	.1882	.1871	.1869	.1869	.1889	.1889	.1888	.1888	.1232	.1226	.1223	.1222
23.80	.1882	.1871	.1869	.1869	.1888	.1887	.1887	.1887	.1232	.1226	.1223	.1222
24.00	.1882	.1871	.1869	.1869	.1888	.1886	.1886	.1886	.1232	.1226	.1223	.1222
24.20	.1882	.1871	.1869	.1868	.1888	.1885	.1885	.1885	.1232	.1226	.1223	.1222
24.40	.1882	.1871	.1869	.1868	.1888	.1884	.1884	.1884	.1232	.1226	.1223	.1222
24.60	.1882	.1871	.1869	.1868	.1886	.1883	.1883	.1883	.1232	.1226	.1223	.1222
24.80	.1882	.1871	.1869	.1868	.1884	.1882	.1882	.1882	.1232	.1226	.1223	.1222
25.00	.1882	.1871	.1869	.1868	.1882	.1881	.1881	.1881	.1232	.1226	.1223	.1222
25.20	.1882	.1871	.1869	.1868	.1880	.1880	.1880	.1880	.1232	.1226	.1223	.1222
25.40	.1882	.1871	.1869	.1868	.1879	.1879	.1879	.1879	.1232	.1226	.1223	.1222
25.60	.1882	.1871	.1869	.1868	.1879	.1879	.1879	.1879	.1232	.1226	.1223	.1222
25.80	.1882	.1870	.1868	.1867	.1878	.1878	.1878	.1878	.1232	.1226	.1223	.1221
26.00	.1882	.1869	.1868	.1867	.1877	.1877	.1877	.1877	.1232	.1226	.1223	.1221
26.20	.1881	.1868	.1867	.1867	.1877	.1877	.1877	.1877	.1232	.1226	.1223	.1221
26.40	.1880	.1867	.1866	.1866	.1877	.1876	.1876	.1876	.1232	.1225	.1222	.1220
26.60	.1876	.1866	.1866	.1866	.1877	.1876	.1876	.1876	.1232	.1224	.1222	.1220
26.80	.1871	.1865	.1865	.1865	.1877	.1875	.1875	.1875	.1231	.1223	.1221	.1219
27.00	.1871	.1865	.1865	.1865	.1877	.1875	.1875	.1875	.1230	.1223	.1220	.1219

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА П2-22 - Продължение

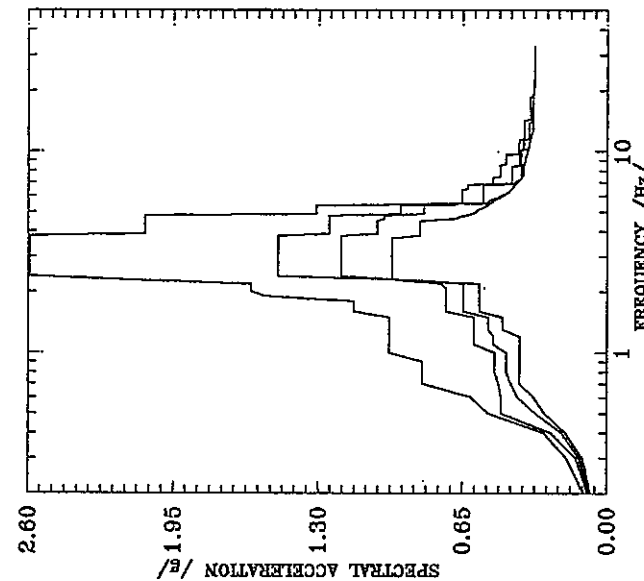
Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
27.20	.1871	.1864	.1864	.1864	.1877	.1874	.1874	.1874	.1229	.1222	.1219	.1218
27.40	.1871	.1864	.1864	.1864	.1877	.1874	.1874	.1874	.1227	.1221	.1219	.1217
27.60	.1871	.1864	.1864	.1864	.1877	.1873	.1873	.1873	.1225	.1220	.1218	.1217
27.80	.1871	.1863	.1863	.1863	.1877	.1873	.1873	.1873	.1224	.1219	.1217	.1216
28.00	.1871	.1863	.1863	.1863	.1877	.1873	.1873	.1873	.1223	.1218	.1216	.1215
28.20	.1871	.1863	.1863	.1863	.1877	.1872	.1872	.1872	.1222	.1217	.1215	.1214
28.40	.1871	.1863	.1862	.1862	.1877	.1872	.1872	.1872	.1220	.1216	.1214	.1214
28.60	.1870	.1863	.1862	.1862	.1877	.1872	.1872	.1872	.1219	.1214	.1213	.1213
28.80	.1868	.1862	.1862	.1862	.1877	.1871	.1871	.1871	.1217	.1213	.1212	.1212
29.00	.1867	.1862	.1862	.1862	.1877	.1871	.1871	.1871	.1216	.1212	.1211	.1211
29.20	.1866	.1861	.1861	.1861	.1877	.1871	.1871	.1871	.1216	.1211	.1211	.1211
29.40	.1864	.1861	.1861	.1861	.1877	.1870	.1870	.1870	.1216	.1210	.1210	.1210
29.60	.1864	.1860	.1860	.1860	.1877	.1870	.1870	.1870	.1216	.1210	.1210	.1210
29.80	.1864	.1860	.1860	.1860	.1877	.1870	.1870	.1870	.1216	.1209	.1209	.1209
30.00	.1864	.1860	.1860	.1860	.1877	.1870	.1870	.1870	.1216	.1209	.1209	.1209
30.20	.1864	.1859	.1859	.1859	.1877	.1869	.1869	.1869	.1216	.1209	.1209	.1209
30.40	.1864	.1859	.1859	.1859	.1877	.1869	.1869	.1869	.1216	.1209	.1209	.1209
30.60	.1864	.1859	.1859	.1859	.1877	.1869	.1869	.1869	.1216	.1209	.1209	.1209
30.80	.1864	.1858	.1858	.1858	.1877	.1868	.1868	.1868	.1216	.1209	.1209	.1209
31.00	.1864	.1858	.1858	.1858	.1877	.1868	.1868	.1868	.1216	.1209	.1209	.1209
31.20	.1864	.1858	.1857	.1857	.1877	.1868	.1868	.1868	.1216	.1209	.1209	.1209
31.40	.1864	.1858	.1857	.1857	.1877	.1868	.1868	.1868	.1216	.1209	.1209	.1209
31.60	.1864	.1858	.1857	.1857	.1877	.1867	.1867	.1867	.1216	.1209	.1209	.1209
31.80	.1864	.1858	.1856	.1856	.1877	.1867	.1867	.1867	.1216	.1209	.1209	.1209
32.00	.1864	.1858	.1856	.1856	.1877	.1867	.1867	.1867	.1216	.1209	.1209	.1209
32.20	.1864	.1858	.1855	.1855	.1877	.1867	.1867	.1867	.1216	.1209	.1209	.1209
32.40	.1864	.1858	.1855	.1855	.1877	.1866	.1866	.1866	.1216	.1209	.1209	.1209
32.60	.1864	.1858	.1855	.1855	.1867	.1866	.1866	.1866	.1216	.1209	.1209	.1209
32.80	.1864	.1858	.1855	.1855	.1867	.1866	.1866	.1866	.1216	.1209	.1209	.1209
33.00	.1864	.1858	.1855	.1855	.1867	.1865	.1865	.1865	.1216	.1209	.1209	.1209
33.20	.1864	.1858	.1855	.1855	.1867	.1865	.1865	.1865	.1216	.1209	.1209	.1209

ACCELERATION RESPONSE SPECTRA
RLE
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 924
COMPONENT L



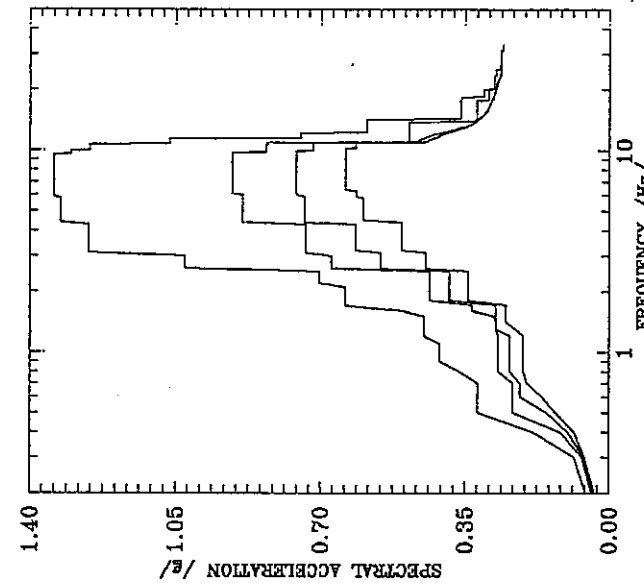
СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 924, КОМПОНЕНТА L

ACCELERATION RESPONSE SPECTRA
RLE
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 924
COMPONENT T



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 924, КОМПОНЕНТА T

ACCELERATION RESPONSE SPECTRA
RLE
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 924
COMPONENT V



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 924, КОМПОНЕНТА V

Фиг.Д.25 Спектри на реагиране. Въздействие -RLE. Възел 924

ТАБЛИЦА Д-19
ЕТАЖНИ СПЕКТРИ НА РЕАГИРАНЕ - RLE
ВЪЗЕЛ 924

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
.20	.1273	.0872	.0729	.0620	.1054	.0840	.0781	.0723	.0570	.0429	.0385	.0355
.40	.2693	.2277	.2133	.1975	.2853	.2519	.2031	.1873	.1850	.1190	.1008	.0845
.60	.5612	.4710	.4256	.3707	.6139	.4765	.4017	.3295	.3188	.2340	.2173	.1633
.80	.6199	.4998	.4546	.4198	.8304	.5080	.4543	.3935	.3654	.2698	.2417	.2083
1.00	.8343	.5004	.4546	.4198	.9806	.5080	.4543	.3935	.4121	.2698	.2417	.2083
1.20	.8991	.5207	.4832	.4198	.9806	.5990	.5120	.3935	.4481	.2698	.2417	.2083
1.40	.9982	.6099	.5292	.4413	.9806	.5990	.5351	.4712	.4481	.2755	.2755	.2513
1.60	1.0440	.6099	.5292	.4413	1.1390	.7276	.6494	.5750	.5007	.3337	.2755	.2513
1.80	1.1640	.7852	.6527	.5177	1.1390	.7276	.6494	.5750	.6397	.4356	.3887	.3429
2.00	1.3170	.7852	.6527	.5177	1.6020	.7276	.6494	.5750	.6397	.4356	.3887	.3429
2.20	1.3170	.8550	.6958	.5177	1.6020	.7493	.6494	.5750	.7046	.4356	.3887	.3429
2.40	1.3170	.8550	.7587	.6123	2.5930	1.4830	1.1980	.9684	.7046	.4356	.3887	.3429
2.60	1.5580	.9219	.7587	.6123	2.5930	1.4830	1.1980	.9684	1.0270	.6741	.5545	.4461
2.80	1.5580	.9219	.7587	.6123	2.5930	1.4830	1.1980	.9684	1.0270	.6741	.5545	.4461
3.00	1.7410	.9665	.7649	.6123	2.5930	1.4830	1.1980	.9684	1.2590	.7370	.6154	.5032
3.20	1.7410	.9665	.7649	.6123	2.5930	1.4830	1.1980	.9684	1.2590	.7370	.6154	.5032
3.40	1.7410	.9665	.7649	.6123	2.5930	1.4830	1.1980	.9684	1.2590	.7370	.6154	.5032
3.60	1.7410	.9665	.7649	.6123	2.5930	1.4830	1.1980	.9684	1.2590	.7370	.6154	.5032
3.80	1.7410	.9665	.7649	.6123	2.5930	1.4830	1.1980	.9684	1.2590	.7370	.6154	.5032
4.00	1.7410	.9665	.7649	.6043	2.0780	1.2530	1.0360	.8432	1.2590	.7370	.6154	.5032
4.20	1.7410	.9665	.7649	.6043	2.0780	1.2530	1.0360	.8432	1.2590	.7370	.6154	.5032
4.40	1.7410	.9665	.7649	.6043	2.0780	1.2530	1.0360	.8432	1.3260	.8894	.7401	.5963
4.60	.9366	.7649	.7649	.6021	2.0780	1.2530	1.0040	.6889	1.3260	.8894	.7401	.5963
4.80	.9366	.6021	.6021	.6021	2.0780	1.2530	1.0040	.6379	1.3260	.8894	.7401	.5963
5.00	.9366	.4400	.4145	.3831	1.3100	.9276	.8237	.5862	1.3260	.8894	.7401	.5963
5.20	.9366	.4108	.3834	.3556	1.3100	.9276	.8237	.5667	1.3260	.8894	.7401	.5963
5.40	.9366	.3924	.3619	.3333	1.3100	.9276	.8237	.5383	1.3260	.8894	.7401	.5963
5.60	.4916	.3587	.3366	.3137	.6553	.5598	.5391	.5188	1.3260	.8894	.7401	.5963
5.80	.4916	.3216	.3159	.3055	.6553	.5598	.5143	.4974	1.3260	.8894	.7401	.5963
6.00	.4916	.3192	.3093	.2981	.6553	.5598	.4817	.4739	1.3420	.8894	.7581	.6132
6.20	.4916	.3077	.2988	.2888	.6553	.5598	.4543	.4529	1.3420	.9144	.7592	.6132
6.40	.4916	.2941	.2857	.2776	.6553	.5598	.4368	.4368	1.3420	.9144	.7592	.6397

ТАБЛИЦА Д-19 – Продължение

Hz	L			T			V		
	2%	5%	7%	2%	5%	7%	2%	5%	7%
6.60	.3495	.2784	.2731	.6271	.5598	.4261	1.3420	.9144	.7592
6.80	.3495	.2730	.2679	.6271	.5598	.4222	1.3420	.9144	.7592
7.00	.3495	.2730	.2679	.5161	.4307	.4133	1.3420	.9144	.7592
7.20	.3495	.2730	.2679	.5161	.4307	.4004	1.3420	.9144	.7592
7.40	.3495	.2730	.2679	.5161	.4307	.3874	1.3420	.9144	.7592
7.60	.2948	.2730	.2679	.4827	.4307	.3868	1.3420	.9144	.7592
7.80	.2948	.2730	.2679	.4827	.4307	.3868	1.3420	.9144	.7592
8.00	.2948	.2730	.2679	.4827	.4307	.3868	1.3420	.9144	.7592
8.20	.2948	.2730	.2679	.4827	.4307	.3868	1.3420	.9144	.7592
8.40	.2948	.2730	.2679	.4827	.4307	.3868	1.3420	.9144	.7592
8.60	.2948	.2730	.2679	.4563	.3971	.3868	1.3420	.9144	.7592
8.80	.2948	.2730	.2679	.4563	.3971	.3868	1.3420	.9144	.7592
9.00	.2948	.2730	.2679	.4563	.3971	.3868	1.3420	.9144	.7592
9.20	.2948	.2730	.2679	.4563	.3971	.3868	1.3420	.9144	.7592
9.40	.2948	.2730	.2679	.4563	.3971	.3868	1.3420	.9144	.7592
9.60	.2948	.2730	.2679	.4563	.3971	.3868	1.3420	.9144	.7592
9.80	.2948	.2730	.2679	.4563	.3971	.3868	1.3420	.9144	.7592
10.00	.2948	.2730	.2679	.3992	.3971	.3868	1.3010	.8331	.7592
10.20	.2948	.2730	.2679	.3992	.3971	.3868	1.2560	.8331	.7592
10.40	.2948	.2730	.2679	.3992	.3971	.3868	1.2560	.8331	.7592
10.60	.2948	.2730	.2679	.3992	.3971	.3868	1.2560	.8331	.7592
10.80	.2948	.2730	.2679	.3992	.3971	.3868	1.2560	.8331	.7592
11.00	.2948	.2730	.2679	.3992	.3971	.3868	1.2560	.8331	.7592
11.20	.2948	.2730	.2679	.3992	.3971	.3868	1.2560	.8331	.7592
11.40	.2863	.2730	.2679	.3992	.3971	.3868	1.2560	.8331	.7592
11.60	.2863	.2657	.2606	.3992	.3971	.3868	1.2560	.8331	.7592
11.80	.2863	.2657	.2606	.3992	.3971	.3868	1.2560	.8331	.7592
12.00	.2863	.2657	.2606	.3992	.3971	.3868	1.2560	.8331	.7592
12.20	.2863	.2657	.2606	.3992	.3971	.3868	1.2560	.8331	.7592
12.40	.2863	.2657	.2606	.3992	.3971	.3868	1.2560	.8331	.7592
12.60	.2863	.2657	.2606	.3992	.3971	.3868	1.2560	.8331	.7592
12.80	.2863	.2657	.2606	.3992	.3971	.3868	1.2560	.8331	.7592
13.00	.2863	.2657	.2606	.3992	.3971	.3868	1.2560	.8331	.7592
13.20	.2863	.2657	.2606	.3992	.3971	.3868	1.2560	.8331	.7592

ТАБЛИЦА Д-19 – Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
13.40	.2863	.2617	.2606	.2555	.3743	.3531	.3365	.3346	.5885	.4857	.3351	.3351
13.60	.2863	.2606	.2606	.2547	.3743	.3531	.3365	.3346	.5885	.4857	.3293	.3293
13.80	.2863	.2606	.2606	.2538	.3743	.3531	.3365	.3346	.5885	.4857	.3248	.3248
14.00	.2863	.2606	.2606	.2527	.3743	.3390	.3365	.3346	.5885	.3294	.3213	.3213
14.20	.2863	.2606	.2606	.2520	.3743	.3390	.3365	.3346	.5885	.3232	.3188	.3182
14.40	.2863	.2606	.2606	.2511	.3490	.3390	.3365	.3346	.3622	.3232	.3170	.3153
14.60	.2863	.2606	.2606	.2502	.3490	.3390	.3365	.3346	.3622	.3232	.3137	.3122
14.80	.2863	.2606	.2606	.2492	.3490	.3390	.3365	.3346	.3622	.3232	.3093	.3091
15.00	.2863	.2606	.2606	.2482	.3490	.3390	.3365	.3346	.3622	.3232	.3060	.3060
15.20	.2863	.2606	.2606	.2474	.3490	.3390	.3365	.3346	.3622	.3232	.3032	.3032
15.40	.2863	.2606	.2606	.2474	.3490	.3390	.3365	.3346	.3622	.3232	.3007	.3007
15.60	.2863	.2606	.2606	.2474	.3490	.3388	.3365	.3346	.3622	.3232	.2986	.2986
15.80	.2712	.2491	.2482	.2474	.3490	.3380	.3362	.3346	.3622	.3232	.2969	.2969
16.00	.2712	.2491	.2482	.2474	.3490	.3370	.3357	.3346	.3622	.3232	.2954	.2954
16.20	.2712	.2491	.2482	.2474	.3490	.3359	.3351	.3346	.3622	.3232	.2941	.2941
16.40	.2712	.2491	.2482	.2474	.3490	.3351	.3346	.3346	.3622	.3232	.2929	.2929
16.60	.2712	.2491	.2482	.2474	.3490	.3346	.3346	.3346	.3622	.3232	.2918	.2917
16.80	.2712	.2491	.2482	.2474	.3490	.3346	.3346	.3346	.3622	.3232	.2907	.2905
17.00	.2712	.2491	.2482	.2474	.3490	.3346	.3346	.3346	.3622	.3232	.2895	.2893
17.20	.2712	.2491	.2482	.2474	.3490	.3346	.3346	.3346	.3622	.3232	.2883	.2882
17.40	.2565	.2491	.2482	.2474	.3490	.3346	.3346	.3346	.3622	.3232	.2872	.2871
17.60	.2565	.2491	.2482	.2474	.3490	.3346	.3346	.3346	.3622	.3232	.2860	.2860
17.80	.2565	.2491	.2482	.2474	.3490	.3346	.3346	.3346	.3622	.2938	.2849	.2849
18.00	.2565	.2491	.2482	.2474	.3490	.3346	.3346	.3346	.3587	.2938	.2839	.2839
18.20	.2565	.2491	.2482	.2474	.3490	.3346	.3346	.3346	.3587	.2938	.2829	.2829
18.40	.2565	.2491	.2482	.2474	.3485	.3346	.3346	.3346	.3052	.2938	.2820	.2820
18.60	.2565	.2491	.2482	.2473	.3485	.3346	.3346	.3346	.3052	.2938	.2811	.2811
18.80	.2565	.2489	.2481	.2473	.3351	.3346	.3346	.3346	.3052	.2938	.2803	.2803
19.00	.2516	.2489	.2481	.2473	.3346	.3346	.3346	.3346	.3052	.2938	.2795	.2795
19.20	.2516	.2489	.2481	.2473	.3346	.3346	.3346	.3346	.3052	.2938	.2787	.2787
19.40	.2516	.2488	.2480	.2473	.3316	.3309	.3308	.3306	.3052	.2938	.2780	.2780
19.60	.2516	.2486	.2478	.2472	.3316	.3309	.3307	.3305	.3052	.2938	.2773	.2773
19.80	.2516	.2482	.2476	.2471	.3315	.3308	.3306	.3304	.3052	.2938	.2767	.2767
20.00	.2516	.2478	.2474	.2469	.3312	.3306	.3304	.3302	.3052	.2938	.2761	.2760

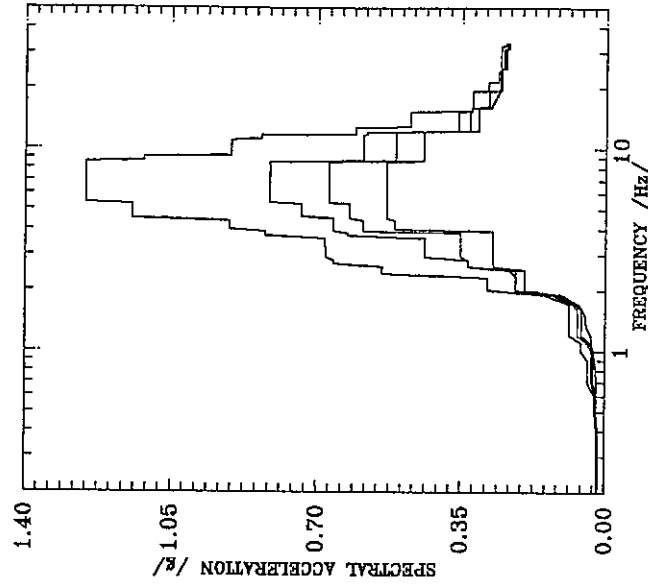
ТАБЛИЦА Д-19 – Прогъждане

Hz	L			T			V					
	28	58	78	108	28	58	78	108	28	58	78	108
20.20	.2516	.2475	.2472	.2468	.3309	.3304	.3303	.3301	.2810	.2758	.2757	.2755
20.40	.2516	.2471	.2469	.2467	.3307	.3302	.3301	.3299	.2810	.2755	.2752	.2749
20.60	.2516	.2467	.2467	.2465	.3306	.3300	.3299	.3298	.2810	.2752	.2748	.2743
20.80	.2516	.2467	.2464	.2464	.3306	.3297	.3297	.3296	.2810	.2749	.2743	.2737
21.00	.2516	.2467	.2463	.2463	.3306	.3295	.3295	.3294	.2810	.2746	.2738	.2732
21.20	.2516	.2467	.2462	.2462	.3306	.3294	.3294	.3293	.2810	.2742	.2733	.2726
21.40	.2516	.2467	.2461	.2461	.3306	.3292	.3292	.3291	.2810	.2736	.2727	.2720
21.60	.2516	.2467	.2460	.2460	.3306	.3292	.3291	.3290	.2810	.2729	.2720	.2713
21.80	.2514	.2467	.2460	.2459	.3306	.3291	.3289	.3288	.2810	.2722	.2713	.2707
22.00	.2514	.2467	.2460	.2459	.3306	.3290	.3288	.3287	.2810	.2713	.2706	.2700
22.20	.2514	.2467	.2460	.2458	.3306	.3289	.3286	.3285	.2810	.2704	.2697	.2694
22.40	.2514	.2467	.2460	.2458	.3306	.3288	.3284	.3283	.2810	.2693	.2689	.2687
22.60	.2514	.2467	.2460	.2458	.3303	.3285	.3282	.3282	.2810	.2682	.2680	.2680
22.80	.2514	.2467	.2460	.2457	.3291	.3282	.3280	.3280	.2810	.2674	.2674	.2674
23.00	.2514	.2467	.2460	.2456	.3279	.3279	.3279	.3279	.2810	.2667	.2667	.2667
23.20	.2514	.2466	.2459	.2455	.3278	.3277	.3277	.3277	.2810	.2661	.2661	.2661
23.40	.2514	.2466	.2458	.2454	.3278	.3277	.3276	.3276	.2810	.2656	.2656	.2656
23.60	.2514	.2464	.2457	.2454	.3278	.3277	.3276	.3274	.2762	.2650	.2650	.2650
23.80	.2514	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2762	.2646	.2646	.2646
24.00	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2762	.2641	.2641	.2641
24.20	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2762	.2639	.2639	.2639
24.40	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2762	.2636	.2636	.2636
24.60	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2762	.2634	.2634	.2634
24.80	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2762	.2633	.2632	.2632
25.00	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2762	.2633	.2632	.2632
25.20	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2706	.2633	.2632	.2632
25.40	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2670	.2633	.2632	.2632
25.60	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2670	.2633	.2632	.2632
25.80	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2670	.2633	.2632	.2632
26.00	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2670	.2633	.2632	.2632
26.20	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2670	.2633	.2632	.2632
26.40	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2668	.2633	.2632	.2632
26.60	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2660	.2633	.2632	.2632
26.80	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2652	.2633	.2632	.2632
26.80	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2640	.2633	.2632	.2632

ТАБЛИЦА Д-19 - Продължение

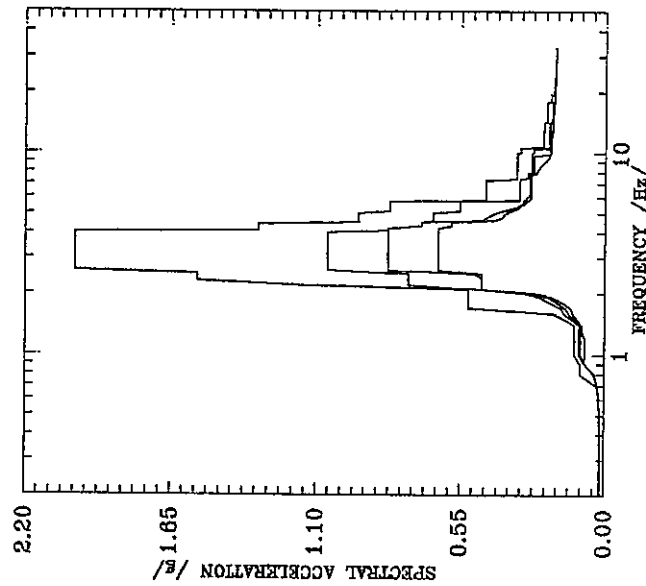
Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
27.00	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
27.20	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
27.40	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
27.60	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
27.80	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
28.00	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
28.20	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
28.40	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
28.60	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
28.80	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
29.00	.2511	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
29.20	.2483	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
29.40	.2483	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
29.60	.2483	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
29.80	.2483	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
30.00	.2483	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
30.20	.2483	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
30.40	.2483	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
30.60	.2483	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
30.80	.2483	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
31.00	.2483	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2632	.2632
31.20	.2483	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2633	.2633	.2600	.2583
31.40	.2483	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2603	.2603	.2586	.2583
31.60	.2483	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2592	.2587	.2586	.2583
31.80	.2483	.2461	.2457	.2454	.3278	.3277	.3276	.3273	.2592	.2587	.2586	.2583
32.00	.2483	.2460	.2456	.2454	.3278	.3277	.3276	.3273	.2592	.2587	.2586	.2583
32.20	.2483	.2460	.2456	.2453	.3278	.3277	.3276	.3273	.2592	.2587	.2586	.2583
32.40	.2483	.2458	.2455	.2453	.3278	.3277	.3276	.3273	.2592	.2587	.2586	.2583
32.60	.2483	.2457	.2454	.2453	.3278	.3277	.3276	.3273	.2592	.2587	.2586	.2583
32.80	.2483	.2456	.2453	.2452	.3278	.3277	.3276	.3273	.2592	.2587	.2586	.2583
33.00	.2483	.2455	.2452	.2452	.3278	.3277	.3276	.3273	.2592	.2587	.2586	.2583
33.20	.2475	.2453	.2452	.2452	.3278	.3277	.3276	.3273	.2592	.2587	.2586	.2583

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 924
COMPONENT V



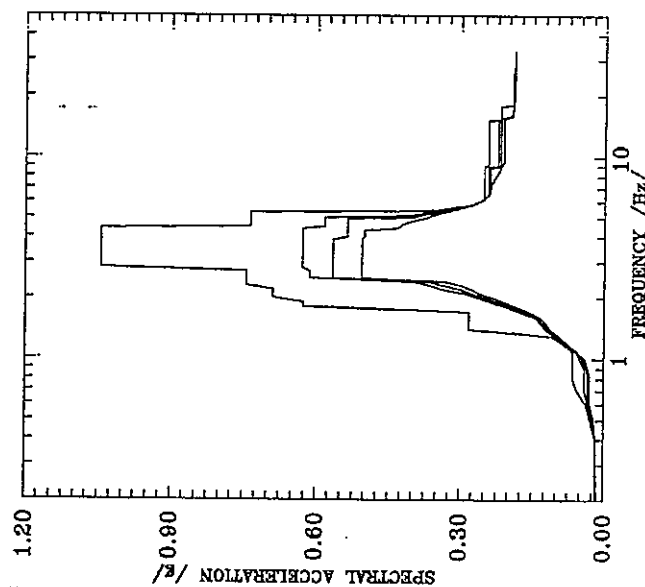
СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ, ОБВИВКИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 924, КОМПОНЕНТА V

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 924
COMPONENT T



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ, ОБВИВКИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 924, КОМПОНЕНТА T

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 924
COMPONENT L



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ, ОБВИВКИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 924, КОМПОНЕНТА L

Фиг.Д.44 Спектри на реагиране. Въздействие - локални земетр. Възел 924

ТАБЛИЦА Д-38 – Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
6.60	.2506	.2426	.2409	.2409	.4548	.3286	.2884	.2809	1.2550	.8142	.6731	.5331
6.80	.2506	.2426	.2398	.2393	.4548	.3286	.2884	.2809	1.2550	.8142	.6731	.5331
7.00	.2506	.2426	.2398	.2384	.4548	.3286	.2884	.2809	1.2550	.8142	.6731	.5331
7.20	.2506	.2426	.2398	.2372	.4548	.3268	.2884	.2809	1.2550	.8142	.6731	.5331
7.40	.2506	.2426	.2398	.2353	.3377	.3268	.2884	.2809	1.2550	.8142	.6731	.5331
7.60	.2506	.2426	.2398	.2328	.3377	.2968	.2884	.2809	1.2550	.8142	.6731	.5331
7.80	.2506	.2426	.2398	.2299	.3377	.2968	.2884	.2809	1.2550	.8142	.6731	.5331
8.00	.2506	.2426	.2398	.2269	.3377	.2823	.2715	.2611	1.2550	.8142	.6731	.5331
8.20	.2506	.2426	.2398	.2242	.3377	.2823	.2715	.2568	1.2550	.8142	.6731	.5331
8.40	.2506	.2426	.2398	.2218	.3377	.2823	.2715	.2514	1.2550	.8142	.6731	.5331
8.60	.2506	.2426	.2398	.2199	.3377	.2823	.2715	.2465	1.2550	.8142	.6731	.5331
8.80	.2506	.2426	.2398	.2182	.3377	.2823	.2715	.2394	1.1160	.5906	.5104	.4427
9.00	.2506	.2230	.2183	.2163	.3377	.2823	.2715	.2242	.9064	.5906	.5104	.4427
9.20	.2426	.2230	.2171	.2141	.3377	.2823	.2715	.2187	.9064	.5906	.5104	.4427
9.40	.2426	.2230	.2171	.2118	.3377	.2823	.2715	.2150	.9064	.5906	.5104	.4427
9.60	.2426	.2230	.2171	.2118	.3377	.2823	.2715	.2122	.9064	.5906	.5104	.4427
9.80	.2426	.2230	.2171	.2118	.3377	.2823	.2715	.2122	.9064	.5906	.5104	.4427
10.00	.2426	.2230	.2171	.2118	.3231	.2745	.2120	.2095	.9064	.5906	.5104	.4427
10.20	.2426	.2230	.2171	.2118	.3231	.2745	.2120	.2090	.9064	.5906	.5104	.4427
10.40	.2426	.2230	.2171	.2118	.3231	.2745	.2120	.2090	.9064	.5906	.5104	.4427
10.60	.2426	.2230	.2171	.2118	.3231	.2745	.2120	.2090	.9064	.5906	.5104	.4427
10.80	.2426	.2230	.2171	.2118	.3231	.2745	.2120	.2090	.9064	.5906	.5104	.4427
11.00	.2426	.2230	.2171	.2118	.2370	.2163	.2120	.2090	.8939	.5906	.5104	.4427
11.20	.2426	.2230	.2171	.2118	.2370	.2163	.2120	.2090	.8342	.5906	.5104	.4427
11.40	.2426	.2230	.2171	.2118	.2370	.2163	.2120	.2090	.8342	.5906	.5104	.4427
11.60	.2426	.2230	.2171	.2118	.2370	.2163	.2120	.2085	.8342	.5906	.5104	.4427
11.80	.2426	.2230	.2171	.2118	.2370	.2163	.2120	.2076	.6098	.5816	.5104	.4427
12.00	.2426	.2230	.2171	.2118	.2370	.2163	.2120	.2066	.6098	.5816	.5104	.4427
12.20	.2426	.2230	.2171	.2118	.2369	.2163	.2120	.2055	.6098	.3587	.3298	.3100
12.40	.2426	.2230	.2171	.2118	.2369	.2163	.2120	.2042	.6098	.3587	.3298	.3100
12.60	.2426	.2230	.2171	.2118	.2345	.2163	.2120	.2027	.6098	.3587	.3298	.3100
12.80	.2426	.2230	.2171	.2118	.2345	.2163	.2120	.2019	.4746	.3587	.3298	.3100
13.00	.2426	.2230	.2171	.2118	.2345	.2163	.2120	.2019	.4746	.3587	.3298	.3100
13.20	.2426	.2230	.2171	.2118	.2345	.2163	.2120	.2019	.4746	.3587	.3298	.3100

ТАБЛИЦА Д-38 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
13.40	.2426	.2230	.2171	.2118	.2345	.2163	.2120	.2019	.4746	.3587	.3298	.3100
13.60	.2426	.2230	.2171	.2118	.2345	.2163	.2120	.2019	.4746	.3587	.3298	.3100
13.80	.2426	.2230	.2171	.2118	.2345	.2163	.2120	.2019	.4746	.3587	.3298	.3100
14.00	.2426	.2230	.2171	.2118	.2345	.2163	.2120	.2019	.4746	.3587	.3298	.3100
14.20	.2426	.2230	.2171	.2118	.2226	.2118	.2043	.2019	.4746	.3587	.3298	.3100
14.40	.2426	.2230	.2171	.2118	.2226	.2077	.2043	.2019	.4746	.3587	.3298	.3100
14.60	.2426	.2230	.2171	.2118	.2226	.2072	.2043	.2019	.4746	.3587	.3298	.3100
14.80	.2426	.2230	.2171	.2118	.2226	.2055	.2043	.2017	.4746	.3587	.3298	.3100
15.00	.2426	.2230	.2171	.2118	.2226	.2043	.2043	.2013	.4746	.3587	.3298	.3100
15.20	.2426	.2230	.2171	.2118	.2226	.2043	.2043	.2011	.4746	.3587	.3267	.3100
15.40	.2183	.2171	.2171	.2118	.2226	.2043	.2043	.2007	.3267	.3267	.3267	.3100
15.60	.2183	.2171	.2171	.2118	.2226	.2043	.2043	.2004	.3267	.3267	.3267	.3100
15.80	.2183	.1964	.1964	.1964	.2226	.2043	.2043	.2000	.3267	.3267	.3267	.3100
16.00	.2183	.1955	.1955	.1955	.2226	.2043	.2043	.1995	.3243	.2906	.2857	.2785
16.20	.2183	.1947	.1947	.1947	.2226	.2043	.2043	.1991	.3243	.2881	.2857	.2778
16.40	.2183	.1942	.1942	.1942	.2226	.2043	.2043	.1987	.3243	.2857	.2857	.2769
16.60	.2183	.1938	.1938	.1938	.2226	.2043	.2043	.1983	.3243	.2857	.2857	.2758
16.80	.2183	.1935	.1935	.1935	.2226	.2043	.2043	.1979	.3243	.2857	.2857	.2747
17.00	.2183	.1932	.1932	.1932	.2226	.2043	.2043	.1976	.3243	.2857	.2857	.2735
17.20	.2183	.1930	.1930	.1930	.2226	.2043	.2043	.1973	.3243	.2857	.2857	.2723
17.40	.2183	.1928	.1928	.1928	.2226	.2043	.2043	.1970	.3243	.2857	.2857	.2711
17.60	.2183	.1927	.1927	.1927	.2226	.2043	.2043	.1967	.3243	.2857	.2857	.2698
17.80	.2183	.1926	.1926	.1926	.2226	.2043	.2043	.1965	.3243	.2857	.2857	.2684
18.00	.1928	.1924	.1924	.1924	.2082	.1964	.1964	.1962	.3243	.2857	.2857	.2671
18.20	.1928	.1923	.1923	.1923	.2082	.1962	.1961	.1960	.3243	.2857	.2857	.2658
18.40	.1928	.1922	.1922	.1922	.2082	.1959	.1959	.1958	.3243	.2857	.2857	.2644
18.60	.1928	.1921	.1921	.1921	.2082	.1958	.1957	.1956	.3243	.2857	.2857	.2631
18.80	.1928	.1920	.1920	.1920	.2082	.1956	.1955	.1954	.3243	.2857	.2857	.2617
19.00	.1928	.1919	.1919	.1919	.2082	.1955	.1954	.1952	.3243	.2857	.2857	.2604
19.20	.1928	.1918	.1918	.1918	.2082	.1954	.1952	.1950	.3243	.2857	.2857	.2591
19.40	.1928	.1917	.1917	.1917	.1986	.1952	.1950	.1948	.2865	.2613	.2597	.2578
19.60	.1928	.1916	.1916	.1916	.1986	.1950	.1948	.1946	.2865	.2601	.2581	.2565
19.80	.1928	.1915	.1915	.1915	.1986	.1947	.1946	.1944	.2865	.2586	.2569	.2554
20.00	.1928	.1914	.1914	.1914	.1986	.1945	.1944	.1943	.2865	.2577	.2568	.2554

ТАБЛИЦА Д-38 - Продължение

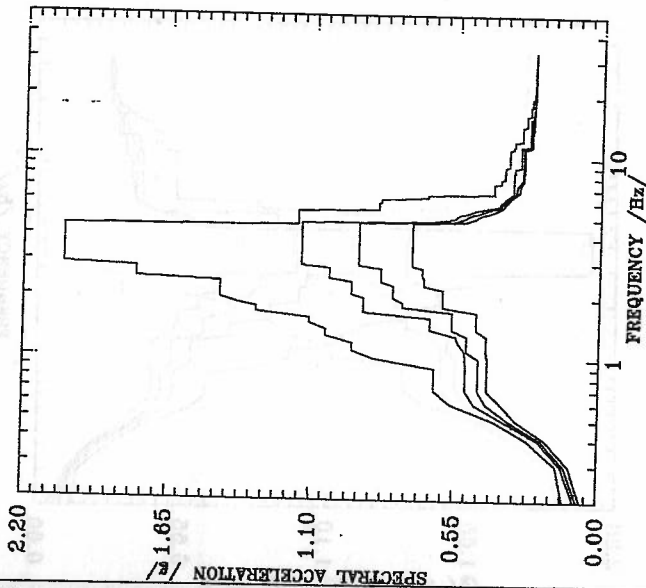
Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
20.20	.1928	.1914	.1913	.1913	.1986	.1941	.1941	.1940	.2865	.2577	.2568	.2554
20.40	.1928	.1912	.1912	.1912	.1986	.1939	.1939	.1938	.2865	.2577	.2568	.2554
20.60	.1928	.1911	.1911	.1911	.1986	.1937	.1937	.1936	.2865	.2577	.2568	.2554
20.80	.1928	.1910	.1910	.1910	.1986	.1936	.1936	.1935	.2865	.2577	.2568	.2554
21.00	.1928	.1909	.1909	.1909	.1986	.1935	.1934	.1933	.2865	.2577	.2568	.2554
21.20	.1928	.1908	.1908	.1908	.1986	.1934	.1933	.1932	.2865	.2577	.2568	.2554
21.40	.1928	.1908	.1907	.1907	.1986	.1932	.1931	.1930	.2635	.2577	.2568	.2554
21.60	.1928	.1908	.1907	.1907	.1960	.1930	.1930	.1929	.2635	.2577	.2568	.2554
21.80	.1928	.1908	.1906	.1906	.1960	.1929	.1928	.1927	.2635	.2577	.2568	.2554
22.00	.1928	.1908	.1906	.1905	.1960	.1927	.1927	.1926	.2635	.2577	.2568	.2554
22.20	.1928	.1908	.1905	.1905	.1960	.1926	.1925	.1925	.2635	.2577	.2568	.2554
22.40	.1928	.1908	.1905	.1905	.1960	.1925	.1924	.1923	.2635	.2577	.2568	.2554
22.60	.1928	.1908	.1905	.1904	.1960	.1924	.1923	.1922	.2635	.2577	.2568	.2554
22.80	.1928	.1908	.1905	.1904	.1960	.1923	.1922	.1921	.2635	.2577	.2568	.2554
23.00	.1927	.1907	.1904	.1903	.1960	.1922	.1921	.1920	.2635	.2577	.2568	.2554
23.20	.1922	.1905	.1903	.1902	.1960	.1921	.1920	.1919	.2635	.2577	.2568	.2554
23.40	.1922	.1904	.1902	.1902	.1960	.1919	.1918	.1918	.2635	.2577	.2568	.2554
23.60	.1922	.1904	.1901	.1901	.1960	.1917	.1917	.1917	.2635	.2577	.2568	.2554
23.80	.1922	.1904	.1901	.1900	.1960	.1916	.1916	.1916	.2635	.2577	.2568	.2554
24.00	.1922	.1904	.1901	.1900	.1934	.1915	.1915	.1915	.2629	.2577	.2568	.2554
24.20	.1922	.1904	.1901	.1900	.1934	.1914	.1914	.1914	.2603	.2577	.2568	.2554
24.40	.1922	.1904	.1901	.1899	.1934	.1913	.1913	.1913	.2577	.2577	.2568	.2554
24.60	.1922	.1904	.1901	.1899	.1934	.1913	.1912	.1912	.2577	.2577	.2568	.2554
24.80	.1922	.1904	.1901	.1899	.1934	.1913	.1912	.1912	.2577	.2577	.2568	.2554
25.00	.1922	.1904	.1901	.1899	.1934	.1913	.1912	.1912	.2568	.2499	.2480	.2455
25.20	.1922	.1904	.1901	.1899	.1934	.1913	.1912	.1912	.2568	.2499	.2480	.2455
25.40	.1922	.1904	.1901	.1899	.1934	.1913	.1912	.1912	.2568	.2499	.2480	.2455
25.60	.1922	.1904	.1901	.1899	.1934	.1913	.1912	.1911	.2568	.2499	.2480	.2455
25.80	.1922	.1904	.1901	.1899	.1934	.1913	.1912	.1911	.2568	.2499	.2480	.2455
26.00	.1922	.1904	.1900	.1899	.1934	.1913	.1912	.1910	.2568	.2499	.2480	.2455
26.20	.1922	.1903	.1900	.1898	.1934	.1913	.1911	.1910	.2568	.2499	.2480	.2455
26.40	.1922	.1903	.1900	.1898	.1934	.1913	.1911	.1909	.2568	.2499	.2480	.2455
26.60	.1917	.1902	.1899	.1897	.1934	.1913	.1911	.1909	.2568	.2499	.2480	.2455
26.80	.1912	.1901	.1899	.1897	.1934	.1913	.1911	.1909	.2568	.2499	.2480	.2455

ТАБЛИЦА Д-38 - Продължение

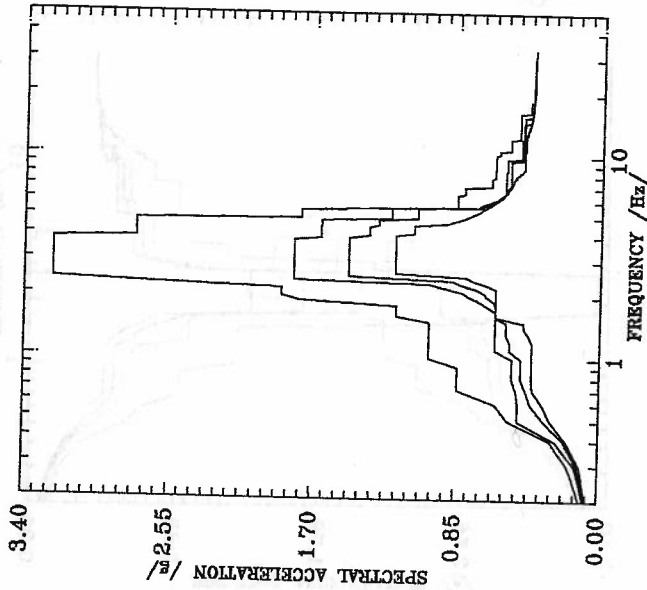
Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
27.00	.1905	.1899	.1898	.1897	.1934	.1912	.1910	.1908	.2568	.2499	.2480	.2455
27.20	.1904	.1899	.1897	.1896	.1934	.1912	.1910	.1908	.2568	.2499	.2480	.2455
27.40	.1904	.1899	.1897	.1896	.1934	.1911	.1909	.1907	.2568	.2499	.2480	.2455
27.60	.1904	.1899	.1896	.1895	.1934	.1910	.1909	.1907	.2568	.2499	.2480	.2455
27.80	.1904	.1899	.1896	.1895	.1934	.1910	.1908	.1906	.2568	.2499	.2480	.2455
28.00	.1904	.1899	.1896	.1895	.1934	.1909	.1908	.1906	.2568	.2499	.2480	.2455
28.20	.1904	.1899	.1896	.1894	.1934	.1909	.1907	.1905	.2568	.2499	.2480	.2455
28.40	.1904	.1899	.1896	.1894	.1913	.1909	.1907	.1905	.2568	.2499	.2480	.2455
28.60	.1904	.1899	.1896	.1894	.1912	.1908	.1907	.1904	.2568	.2499	.2480	.2455
28.80	.1904	.1899	.1896	.1894	.1911	.1908	.1906	.1904	.2568	.2499	.2480	.2455
29.00	.1904	.1899	.1896	.1893	.1911	.1907	.1906	.1903	.2568	.2499	.2480	.2455
29.20	.1903	.1899	.1896	.1893	.1911	.1907	.1905	.1903	.2568	.2499	.2480	.2455
29.40	.1901	.1899	.1896	.1893	.1911	.1906	.1905	.1902	.2568	.2499	.2480	.2455
29.60	.1901	.1899	.1896	.1892	.1911	.1906	.1904	.1902	.2568	.2499	.2480	.2455
29.80	.1901	.1899	.1896	.1892	.1911	.1906	.1904	.1901	.2568	.2499	.2480	.2455
30.00	.1901	.1899	.1896	.1892	.1911	.1905	.1904	.1901	.2568	.2499	.2480	.2455
30.20	.1901	.1899	.1896	.1892	.1911	.1905	.1904	.1901	.2568	.2499	.2480	.2455
30.40	.1901	.1899	.1896	.1892	.1911	.1905	.1904	.1901	.2568	.2499	.2480	.2455
30.60	.1901	.1899	.1896	.1892	.1911	.1905	.1904	.1901	.2568	.2499	.2480	.2455
30.80	.1901	.1899	.1896	.1892	.1911	.1904	.1904	.1900	.2568	.2499	.2480	.2455
31.00	.1901	.1899	.1896	.1891	.1911	.1904	.1904	.1900	.2568	.2499	.2480	.2455
31.20	.1901	.1899	.1896	.1891	.1911	.1904	.1904	.1900	.2568	.2499	.2480	.2455
31.40	.1901	.1899	.1896	.1891	.1911	.1904	.1904	.1900	.2568	.2499	.2480	.2455
31.60	.1901	.1899	.1896	.1891	.1911	.1904	.1904	.1900	.2568	.2499	.2480	.2455
31.80	.1901	.1899	.1896	.1891	.1911	.1904	.1904	.1900	.2568	.2499	.2480	.2455
32.00	.1901	.1899	.1896	.1891	.1911	.1904	.1904	.1900	.2568	.2499	.2480	.2455
32.20	.1901	.1899	.1896	.1891	.1911	.1904	.1904	.1900	.2568	.2499	.2480	.2455
32.40	.1901	.1899	.1896	.1891	.1911	.1904	.1904	.1900	.2568	.2499	.2480	.2455
32.60	.1901	.1899	.1896	.1891	.1911	.1904	.1904	.1900	.2568	.2499	.2480	.2455
32.80	.1901	.1899	.1896	.1891	.1911	.1904	.1904	.1900	.2568	.2499	.2480	.2455
33.00	.1901	.1899	.1896	.1891	.1911	.1904	.1904	.1900	.2568	.2499	.2480	.2455
33.20	.1901	.1899	.1896	.1891	.1911	.1904	.1904	.1900	.2568	.2499	.2480	.2455

Спектри на реагиране за укрепената конструкция на ХОГ

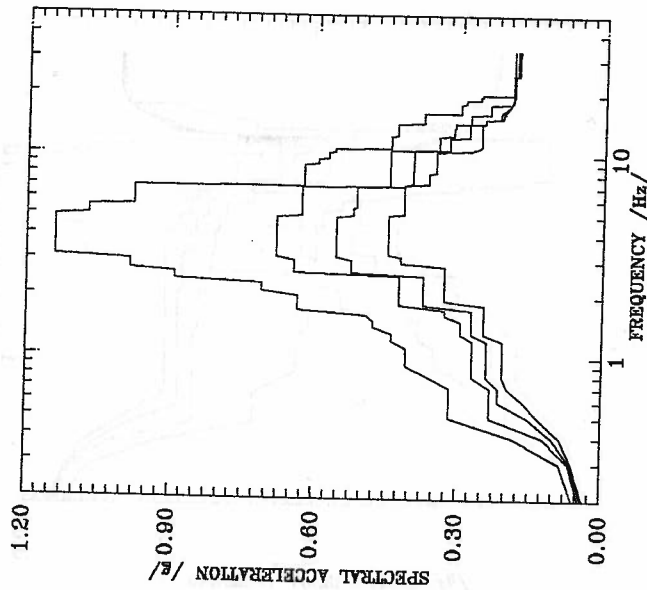
ACCELERATION RESPONSE SPECTRA
RLE
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 1124
COMPONENT L



ACCELERATION RESPONSE SPECTRA
RLE
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 1124
COMPONENT T



ACCELERATION RESPONSE SPECTRA
RLE
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 1124
COMPONENT V



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 1124, КОМПОНЕНТА L

СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 1124, КОМПОНЕНТА T

СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 1124, КОМПОНЕНТА V

Фиг.Д.27 Спектри на реагиране. Въздействие -RLE. Възел 1124

ТАБЛИЦА Д-21

II

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-21 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
6.60	.4126	.3449	.3369	.3283	.8087	.5725	.5725	.5680	.9778	.6306	.5157	.4164
6.80	.4126	.3361	.3276	.3166	.8087	.5722	.5648	.5565	.9778	.6306	.5157	.4164
7.00	.4126						.5558	.5465	.6254	.4467	.4164	.4164
7.20	.4126	.3391						.5372	.6254	.4467	.3997	.3664
7.40	.4126	.3391	.3198	.3091		.5722			.6254	.4467	.3997	.3664
7.60	.3836	.3391	.3120	.3036	.6541	.5722	.5433	.5205	.6254	.4467	.3997	.3664
7.80	.3836	.3391	.3062	.2983	.6541	.5722	.5433	.5114	.6254	.4467	.3997	.3664
8.00	.3732	.3391	.3033	.2983	.6360	.5722	.5433	.4977	.6254	.4467	.3997	.3505
8.20	.3732	.3391	.3033	.2983	.6360	.5722	.5433	.4811	.6254	.4467	.3974	.3505
8.40	.3695	.3391	.3028	.2982	.6322	.5650	.5433	.4662	.6254	.4467	.3974	.3505
8.60	.3695	.3345	.3024	.2975	.6322	.5650	.5433	.4634	.6254	.4467	.3974	.3505
8.80	.3695	.3345	.3024	.2964	.6322	.5650	.5433	.4634	.5963	.4467	.3974	.3505
9.00	.3695	.3114	.3024	.2956	.6322	.5650	.5433	.4634	.5963	.4467	.3974	.3505
9.20	.3549	.3114	.3024	.2956	.6322	.5650	.5433	.4634	.5963	.4467	.3974	.3505
9.40	.3549	.3114	.3024	.2956	.6322	.5650	.5433	.4634	.5963	.4467	.3974	.3505
9.60	.3549	.3114	.3024	.2956	.6322	.5650	.5433	.4634	.5963	.4467	.3974	.3505
9.80	.3549	.3114	.3024	.2956	.6322	.4812	.4711	.4634	.5750	.4467	.3974	.3505
10.00	.3549	.3114	.3024	.2956	.6303	.4812	.4711	.4634	.5750	.4467	.3974	.3505
10.20	.3549	.3114	.3024	.2956	.6108	.4812	.4711	.4628	.5750	.4467	.3974	.3505
10.40	.3549	.3114	.3024	.2956	.6108	.4812	.4711	.4617	.5619	.4467	.3974	.3505
10.60	.3549	.3114	.3024	.2956	.6108	.4812	.4711	.4607	.5619	.3464	.3227	.2761
10.80	.3549	.3114	.3024	.2956	.5441	.4812	.4711	.4598	.4463	.3464	.3227	.2670
11.00	.3549	.3114	.3024	.2956	.5441	.4812	.4711	.4593	.4463	.3464	.3227	.2590
11.20	.3412	.3102	.3024	.2813	.5441	.4812	.4711	.4593	.4463	.3464	.3227	.2572
11.40	.3412	.3102	.3024	.2714	.5441	.4812	.4711	.4593	.4463	.3464	.3227	.2572
11.60	.3362	.2774	.2735	.2706	.5441	.4812	.4711	.4592	.4463	.3464	.3227	.2572
11.80	.3362	.2774	.2735	.2706	.5441	.4812	.4711	.4587	.4463	.3464	.3227	.2572
12.00	.3362	.2774	.2735	.2706	.5441	.4812	.4711	.4579	.4463	.3464	.3227	.2572
12.20	.3054	.2774	.2735	.2706	.4913	.4711	.4711	.4569	.4463	.3464	.3227	.2572
12.40	.3054	.2774	.2735	.2706	.4913	.4695	.4644	.4556	.4463	.3464	.2836	.2572
12.60	.3054	.2774	.2735	.2705	.4913	.4695	.4644	.4539	.4333	.3159	.2836	.2572
12.80	.3054	.2774	.2735	.2701	.4913	.4695	.4644	.4518	.4333	.3159	.2836	.2572
13.00	.3054	.2774	.2735	.2695	.4913	.4695	.4644	.4493	.4333	.3159	.2836	.2572
13.20	.3054	.2774	.2735	.2687	.4913	.4695	.4644	.4468	.4333	.3159	.2836	.2572

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-21 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
13.40	.3054	.2774	.2735	.2677	.4913	.4695	.4644	.4447	.4333	.3159	.2836	.2572
13.60	.3054	.2774	.2735	.2667	.4913	.4695	.4644	.4422	.4333	.3159	.2836	.2572
13.80	.3054	.2774	.2735	.2655	.4913	.4695	.4644	.4396	.4333	.3125	.2836	.2572
14.00	.3054	.2774	.2735	.2654	.4913	.4695	.4644	.4372	.4333	.3125	.2836	.2572
14.20	.3054	.2774	.2735	.2654	.4913	.4695	.4644	.4349	.4333	.3125	.2836	.2572
14.40	.2925	.2774	.2735	.2654	.4913	.4695	.4644	.4329	.3775	.2803	.2515	.2515
14.60	.2925	.2774	.2735	.2654	.4913	.4668	.4312	.4312	.3775	.2803	.2515	.2515
14.80	.2925	.2764	.2735	.2654	.4913	.4668	.4298	.4296	.3775	.2803	.2515	.2515
15.00	.2925	.2764	.2735	.2653	.4913	.4668	.4285	.4282	.3775	.2803	.2515	.2515
15.20	.2925	.2764	.2735	.2651	.4913	.4668	.4268	.4268	.3775	.2803	.2212	.2152
15.40	.2925	.2764	.2735	.2649	.4913	.4668	.4255	.4255	.3775	.2803	.2196	.2148
15.60	.2925	.2764	.2662	.2647	.4913	.4242	.4242	.4242	.3775	.2803	.2196	.2143
15.80	.2925	.2672	.2659	.2644	.4913	.4231	.4231	.4231	.3775	.2803	.2196	.2137
16.00	.2925	.2671	.2658	.2643	.4913	.4220	.4220	.4220	.3775	.2403	.2196	.2130
16.20	.2925	.2667	.2655	.2642	.4913	.4210	.4210	.4210	.3019	.2403	.2190	.2119
16.40	.2774	.2661	.2652	.2640	.4321	.4201	.4201	.4201	.3019	.2403	.2173	.2105
16.60	.2774	.2656	.2648	.2638	.4321	.4193	.4193	.4193	.3019	.2403	.2146	.2088
16.80	.2774	.2651	.2645	.2636	.4321	.4186	.4186	.4186	.3019	.2403	.2112	.2069
17.00	.2774	.2647	.2641	.2633	.4321	.4179	.4179	.4179	.3019	.2403	.2085	.2049
17.20	.2774	.2642	.2638	.2631	.4321	.4174	.4174	.4174	.3019	.2403	.2057	.2029
17.40	.2774	.2638	.2634	.2628	.4321	.4168	.4168	.4168	.3019	.2403	.2031	.2011
17.60	.2774	.2634	.2631	.2626	.4321	.4164	.4164	.4164	.3019	.2403	.2008	.1995
17.80	.2774	.2631	.2627	.2624	.4321	.4159	.4159	.4159	.3019	.2403	.1990	.1983
18.00	.2712	.2627	.2625	.2621	.4321	.4155	.4155	.4155	.2907	.1975	.1975	.1972
18.20	.2712	.2624	.2622	.2619	.4321	.4152	.4152	.4152	.2907	.1965	.1965	.1962
18.40	.2712	.2622	.2620	.2618	.4321	.4148	.4148	.4148	.2907	.1957	.1957	.1953
18.60	.2712	.2620	.2619	.2616	.4152	.4144	.4144	.4144	.2907	.1950	.1950	.1945
18.80	.2712	.2618	.2617	.2615	.4152	.4141	.4141	.4141	.2907	.1947	.1944	.1939
19.00	.2712	.2616	.2616	.2614	.4152	.4138	.4138	.4138	.2620	.1943	.1939	.1932
19.20	.2712	.2615	.2615	.2613	.4152	.4134	.4134	.4134	.2620	.1939	.1934	.1927
19.40	.2712	.2615	.2614	.2613	.4152	.4131	.4131	.4131	.2620	.1934	.1929	.1921
19.60	.2712	.2615	.2613	.2612	.4152	.4128	.4128	.4128	.2576	.1930	.1924	.1916
19.80	.2658	.2615	.2613	.2611	.4152	.4125	.4125	.4125	.2576	.1926	.1920	.1911
20.00	.2658	.2615	.2613	.2611	.4152	.4122	.4122	.4122	.1942	.1923	.1916	.1907

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-21 – Продължение

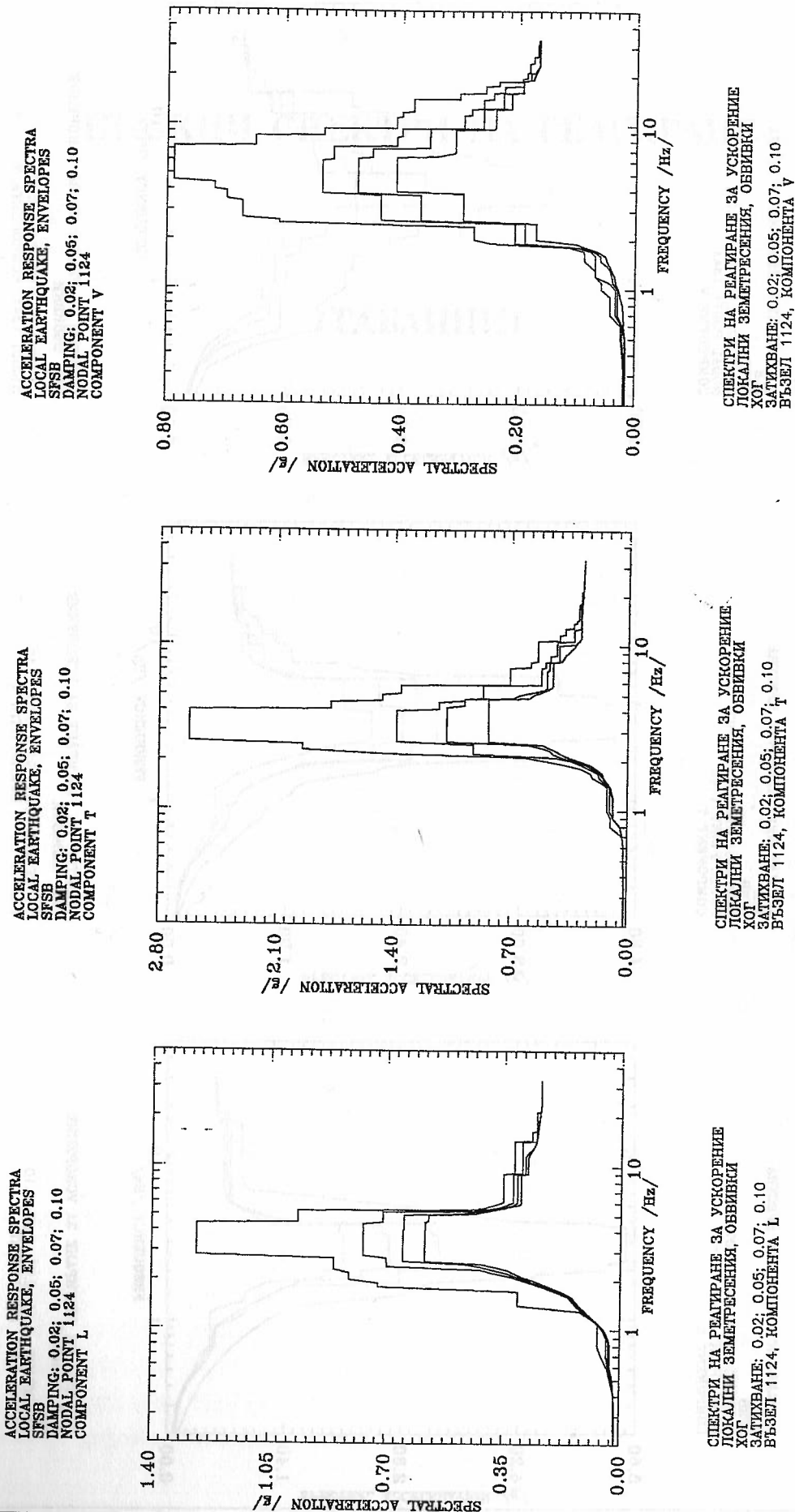
Hz	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
20.20	.2658	.2615	.2613	.2611	.4152	.4115	.4115	.4115	.1942	.1923	.1916	.1907
20.40	.2658	.2615	.2613	.2610	.4152	.4113	.4113	.4113	.1942	.1923	.1916	.1907
20.60	.2658	.2615	.2612	.2610	.4152	.4110	.4110	.4110	.1942	.1923	.1916	.1907
20.80	.2658	.2614	.2612	.2609	.4152	.4107	.4107	.4107	.1942	.1923	.1916	.1907
21.00	.2658	.2613	.2611	.2609	.4152	.4105	.4105	.4105	.1942	.1923	.1916	.1907
21.20	.2619	.2612	.2610	.2608	.4152	.4104	.4103	.4103	.1942	.1923	.1916	.1907
21.40	.2619	.2610	.2609	.2607	.4152	.4104	.4101	.4101	.1942	.1923	.1916	.1907
21.60	.2619	.2609	.2608	.2607	.4152	.4104	.4100	.4100	.1942	.1923	.1916	.1907
21.80	.2619	.2608	.2608	.2606	.4131	.4104	.4099	.4099	.1942	.1923	.1916	.1907
22.00	.2619	.2608	.2607	.2606	.4131	.4104	.4098	.4098	.1942	.1923	.1916	.1907
22.20	.2619	.2608	.2607	.2605	.4131	.4104	.4098	.4097	.1942	.1923	.1916	.1907
22.40	.2619	.2608	.2606	.2605	.4131	.4104	.4098	.4096	.1942	.1923	.1916	.1907
22.60	.2619	.2608	.2606	.2604	.4131	.4104	.4098	.4096	.1942	.1923	.1916	.1907
22.80	.2619	.2608	.2606	.2604	.4131	.4104	.4098	.4095	.1942	.1923	.1916	.1907
23.00	.2619	.2608	.2606	.2604	.4131	.4104	.4098	.4094	.1942	.1923	.1916	.1907
23.20	.2619	.2608	.2606	.2603	.4131	.4104	.4098	.4094	.1942	.1923	.1916	.1907
23.40	.2619	.2608	.2606	.2603	.4131	.4104	.4098	.4093	.1942	.1923	.1916	.1907
23.60	.2614	.2608	.2606	.2603	.4131	.4104	.4098	.4093	.1942	.1923	.1916	.1907
23.80	.2614	.2608	.2606	.2603	.4131	.4104	.4098	.4093	.1942	.1923	.1916	.1907
24.00	.2614	.2608	.2606	.2603	.4131	.4103	.4098	.4093	.1942	.1923	.1916	.1907
24.20	.2614	.2608	.2606	.2603	.4131	.4103	.4098	.4093	.1942	.1923	.1916	.1907
24.40	.2614	.2608	.2606	.2603	.4131	.4103	.4098	.4093	.1942	.1923	.1916	.1907
24.60	.2614	.2608	.2606	.2603	.4131	.4103	.4098	.4093	.1942	.1923	.1916	.1907
24.80	.2614	.2608	.2606	.2603	.4131	.4103	.4098	.4093	.1942	.1923	.1916	.1907
25.00	.2614	.2608	.2606	.2603	.4131	.4103	.4098	.4093	.1942	.1923	.1916	.1907
25.20	.2614	.2608	.2606	.2603	.4131	.4103	.4098	.4093	.1942	.1923	.1916	.1907
25.40	.2614	.2607	.2605	.2602	.4131	.4103	.4098	.4093	.1924	.1851	.1830	.1822
25.60	.2614	.2607	.2605	.2602	.4131	.4103	.4098	.4093	.1924	.1851	.1830	.1822
25.80	.2614	.2606	.2604	.2602	.4131	.4103	.4098	.4093	.1924	.1851	.1830	.1822
26.00	.2614	.2606	.2603	.2601	.4131	.4103	.4098	.4093	.1924	.1851	.1830	.1822
26.20	.2614	.2606	.2603	.2601	.4131	.4103	.4098	.4093	.1924	.1851	.1830	.1822
26.40	.2614	.2606	.2602	.2600	.4131	.4103	.4098	.4093	.1924	.1851	.1830	.1822
26.60	.2614	.2606	.2602	.2600	.4131	.4103	.4098	.4093	.1924	.1851	.1830	.1822
26.80	.2614	.2606	.2602	.2600	.4131	.4103	.4098	.4093	.1924	.1851	.1830	.1822

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-21 - Продължение

Hz	L			T			V		
	2%	5%	7%	10%	2%	5%	10%	7%	5%
27.00	.2614	.2606	.2602	.2600	.4131	.4103	.4098	.4093	.1924
27.20	.2614	.2606	.2602	.2599	.4131	.4103	.4098	.4093	.1851
27.40	.2614	.2606	.2602	.2599	.4131	.4103	.4098	.4093	.1851
27.60	.2614	.2606	.2602	.2599	.4131	.4103	.4098	.4093	.1851
27.80	.2614	.2606	.2602	.2599	.4131	.4103	.4098	.4093	.1851
28.00	.2614	.2606	.2602	.2599	.4131	.4103	.4098	.4093	.1851
28.20	.2614	.2606	.2602	.2598	.4131	.4103	.4098	.4093	.1851
28.40	.2612	.2606	.2602	.2598	.4131	.4103	.4098	.4093	.1851
28.60	.2612	.2606	.2602	.2598	.4131	.4103	.4098	.4093	.1851
28.80	.2612	.2606	.2602	.2598	.4131	.4103	.4098	.4093	.1851
29.00	.2612	.2606	.2602	.2598	.4131	.4103	.4098	.4093	.1851
29.20	.2612	.2606	.2602	.2598	.4131	.4103	.4098	.4093	.1851
29.40	.2612	.2606	.2602	.2598	.4131	.4103	.4098	.4093	.1851
29.60	.2612	.2606	.2602	.2598	.4103	.4103	.4098	.4093	.1851
29.80	.2612	.2606	.2602	.2598	.4103	.4103	.4098	.4093	.1851
30.00	.2612	.2606	.2602	.2598	.4103	.4103	.4098	.4093	.1851
30.20	.2612	.2606	.2602	.2598	.4103	.4103	.4098	.4093	.1851
30.40	.2612	.2606	.2602	.2598	.4103	.4103	.4098	.4093	.1851
30.60	.2612	.2606	.2602	.2598	.4103	.4103	.4098	.4093	.1851
30.80	.2612	.2606	.2602	.2598	.4103	.4103	.4098	.4093	.1851
31.00	.2612	.2606	.2602	.2598	.4103	.4103	.4098	.4093	.1851
31.20	.2612	.2606	.2602	.2598	.4071	.4070	.4070	.4070	.1851
31.40	.2612	.2606	.2602	.2598	.4071	.4070	.4070	.4070	.1851
31.60	.2612	.2606	.2602	.2598	.4071	.4070	.4070	.4070	.1851
31.80	.2612	.2606	.2602	.2598	.4071	.4070	.4070	.4070	.1851
32.00	.2612	.2606	.2602	.2598	.4071	.4070	.4070	.4070	.1851
32.20	.2612	.2606	.2602	.2598	.4071	.4070	.4070	.4070	.1851
32.40	.2612	.2606	.2602	.2598	.4071	.4070	.4070	.4070	.1851
32.60	.2612	.2606	.2602	.2598	.4071	.4070	.4070	.4070	.1851
32.80	.2612	.2606	.2602	.2598	.4071	.4070	.4070	.4070	.1851
33.00	.2612	.2606	.2602	.2598	.4071	.4070	.4070	.4070	.1851
33.20	.2612	.2606	.2602	.2598	.4071	.4070	.4070	.4070	.1851

Спектри на реагиране за укрепената конструкция на ХОГ



Фиг.Д.46 Спектри на реагиране. Въздействие - локални земетр. Възел 1124

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-40
ЕТАЖНИ СПЕКТРИ НА РЕАГИРАНЕ - ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ
ВЪЗЕЛ 1124

Hz	L			T			V		
	2%	5%	7%	10%	2%	5%	7%	10%	10%
.20	.0168	.0156	.0150	.0143	.0188	.0176	.0169	.0162	.0155
.40	.0180	.0180	.0180	.0180	.0201	.0188	.0186	.0180	.0157
.60	.0387	.0348	.0348	.0308	.0229	.0220	.0218	.0218	.0194
.80	.0677	.0408	.0348	.0308	.0997	.0446	.0414	.0414	.0208
1.00	.0677	.0529	.0469	.0465	.1214	.1080	.0854	.0844	.0275
1.20	.0946	.0899	.0877	.0861	.1214	.1080	.0879	.0844	.0345
1.40	.3070	.1334	.1283	.1223	.1218	.1080	.1028	.1008	.0440
1.60	.3070	.1578	.1525	.1471	.2131	.1723	.1516	.1434	.0514
1.80	.7264	.2282	.2176	.2067	.2738	.2278	.2073	.1873	.0837
2.00	.8130	.2972	.2825	.2642	.4992	.3376	.3147	.2863	.1688
2.20	.8130	.3808	.3418	.3193	1.4320	.9262	.4448	.3951	.1688
2.40	.8580	.6998	.4226	.3795	1.9470	.9262	.5138	.4725	.1688
2.60	.8580	.7010	.6509	.5850	2.6230	1.3820	1.0840	.8320	.2943
2.80	1.2670	.7705	.6509	.5850	2.6230	1.3820	1.0840	.8320	.2943
3.00	1.2670	.7705	.6509	.5850	2.6230	1.3820	1.0840	.8356	.2943
3.20	1.2670	.7705	.6509	.5850	2.6230	1.3820	1.0840	.8356	.2943
3.40	1.2670	.7705	.6509	.5850	2.6230	1.3820	1.0840	.8356	.2943
3.60	1.2670	.7705	.6509	.5850	2.6230	1.3820	1.0840	.8356	.2943
3.80	1.2670	.7705	.6509	.5850	2.6230	1.3820	1.0840	.8356	.2943
4.00	1.2670	.7705	.6509	.5850	2.6230	1.3820	1.0840	.8356	.2943
4.20	1.2670	.7705	.6480	.5836	2.6230	1.3820	1.0840	.8356	.4085
4.40	1.2670	.7705	.6480	.5836	1.7780	1.1300	1.0840	.8356	.4085
4.60	.9675	.7118	.6480	.5749	1.7780	1.1300	.9777	.8356	.4085
4.80	.9675	.7118	.6480	.5749	1.4690	.9777	.9777	.8356	.4085
5.00	.9675	.7118	.6480	.5749	1.4690	.8679	.6853	.5880	.4085
5.20	.9675	.7118	.6480	.5749	1.4690	.8679	.6440	.5661	.4085
5.40	.4572	.4131	.3957	.4165	1.3590	.8679	.5708	.5195	.4085
5.60	.4000	.3597	.3459	.3761	1.3590	.8679	.5022	.4822	.4085
5.80	.3780	.3431	.3235	.3400	1.3590	.8679	.4864	.4598	.4085
6.00	.3557	.3230	.3104	.3090	.7060	.5199	.4864	.4514	.4085
6.20	.3528	.3230	.3104	.2986	.7060	.5199	.4864	.4514	.4085
6.40	.3528	.3230	.3104	.2986	.7060	.5199	.4864	.4514	.3396

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-40 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
6.60	.3528	.3230	.3104	.2986	.7060	.5199	.4864	.4514	.7891	.5170	.4505	.3179
6.80	.3528	.3230	.3104	.2986	.7060	.5199	.4864	.4514	.7891	.5170	.4505	.3089
7.00	.3528	.3230	.3104	.2986	.7060	.5199	.4864	.4514	.7891	.5170	.4505	.3089
7.20	.3528	.3230	.3104	.2986	.7060	.5199	.4737	.4514	.7891	.5170	.3528	.3089
7.40	.3528	.3230	.3104	.2986	.5827	.4965	.4737	.4514	.6507	.4082	.3528	.3089
7.60	.3528	.3230	.3104	.2986	.5827	.4965	.4737	.4514	.6507	.4082	.3528	.3089
7.80	.3528	.3230	.3104	.2986	.5827	.4965	.4737	.4514	.6507	.4082	.3528	.3089
8.00	.3528	.3230	.3104	.2986	.5416	.4667	.4139	.3995	.6507	.4082	.3528	.3089
8.20	.3528	.3230	.3104	.2986	.5416	.4667	.4139	.3949	.6507	.4082	.3528	.3089
8.40	.3528	.3230	.3104	.2986	.5416	.4667	.4139	.3873	.6507	.4082	.3528	.3089
8.60	.3528	.3230	.3104	.2986	.5416	.4667	.4139	.3815	.5330	.3997	.3515	.3089
8.80	.3528	.3230	.3104	.2986	.5416	.4316	.4139	.3733	.5330	.3997	.3515	.3089
9.00	.3528	.3230	.2875	.2789	.5416	.4316	.4139	.3630	.5330	.3997	.3515	.3089
9.20	.3196	.2959	.2875	.2789	.5416	.4316	.4139	.3522	.5330	.3997	.3515	.3089
9.40	.3196	.2959	.2875	.2789	.5416	.4316	.4139	.3421	.5330	.3997	.3515	.2429
9.60	.3196	.2959	.2875	.2789	.5416	.4316	.4139	.3332	.4093	.2944	.2617	.2412
9.80	.3196	.2959	.2875	.2789	.5416	.4316	.4139	.3255	.4093	.2944	.2617	.2400
10.00	.3196	.2959	.2875	.2789	.5416	.4316	.4139	.3184	.4093	.2944	.2617	.2400
10.20	.3196	.2959	.2875	.2789	.5416	.4277	.3171	.3126	.4093	.2944	.2617	.2400
10.40	.3196	.2959	.2875	.2789	.5416	.4277	.3075	.3053	.4093	.2944	.2617	.2400
10.60	.3196	.2959	.2875	.2789	.5416	.3286	.2982	.2982	.4093	.2944	.2617	.2400
10.80	.3196	.2959	.2875	.2789	.4161	.3286	.2918	.2918	.4093	.2944	.2617	.2400
11.00	.3196	.2959	.2875	.2789	.4161	.3286	.2870	.2870	.4093	.2944	.2617	.2400
11.20	.3196	.2959	.2875	.2789	.4161	.3286	.2847	.2847	.3995	.2944	.2617	.2400
11.40	.3196	.2959	.2871	.2782	.4161	.3286	.2844	.2842	.3995	.2944	.2617	.2400
11.60	.3196	.2959	.2849	.2765	.3811	.3286	.2844	.2841	.3995	.2817	.2617	.2400
11.80	.3196	.2959	.2825	.2745	.3811	.3286	.2844	.2839	.3995	.2817	.2617	.2400
12.00	.3196	.2959	.2797	.2731	.3811	.3286	.2844	.2834	.3797	.2817	.2614	.2400
12.20	.3196	.2959	.2759	.2711	.3811	.3286	.2844	.2829	.3797	.2817	.2614	.2400
12.40	.3196	.2959	.2719	.2689	.3811	.3286	.2844	.2829	.3797	.2817	.2614	.2400
12.60	.3196	.2959	.2685	.2667	.3811	.2868	.2844	.2829	.3797	.2615	.2614	.2138
12.80	.3196	.2959	.2658	.2646	.3323	.2868	.2844	.2829	.3797	.2615	.2277	.2138
13.00	.3196	.2959	.2636	.2627	.3323	.2868	.2844	.2829	.3797	.2615	.2277	.2138
13.20	.3196	.2959	.2615	.2610	.3323	.2868	.2844	.2829	.3797	.2615	.2277	.2138

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-40 – Продължение

Hz	L			T			V		
	2%	5%	7%	2%	5%	7%	2%	5%	7%
13.40	.3196	.2959	.2595	.3323	.2868	.2844	.3797	.2615	.2277
13.60	.3196	.2959	.2579	.3323	.2868	.2844	.3797	.2615	.2277
13.80	.3196	.2959	.2567	.3129	.2868	.2844	.3797	.2615	.2277
14.00	.3196	.2959	.2557	.3129	.2868	.2844	.3797	.2615	.2277
14.20	.3196	.2549	.2549	.2994	.2868	.2844	.3797	.2615	.2276
14.40	.2681	.2543	.2543	.2994	.2868	.2844	.3024	.2445	.2276
14.60	.2681	.2538	.2538	.2994	.2868	.2844	.3024	.2445	.2276
14.80	.2681	.2535	.2535	.2994	.2868	.2844	.3024	.2445	.2276
15.00	.2681	.2534	.2532	.2994	.2868	.2844	.3024	.2445	.2276
15.20	.2681	.2534	.2526	.2994	.2868	.2843	.3024	.2445	.2276
15.40	.2681	.2534	.2525	.2994	.2868	.2840	.3024	.2445	.2276
15.60	.2681	.2534	.2523	.2994	.2868	.2836	.3024	.2445	.2276
15.80	.2681	.2534	.2520	.2994	.2868	.2831	.3024	.2445	.2276
16.00	.2681	.2534	.2516	.2994	.2868	.2827	.2583	.2261	.1938
16.20	.2681	.2534	.2513	.2994	.2868	.2824	.2583	.2261	.1938
16.40	.2535	.2534	.2511	.2994	.2868	.2821	.2583	.2261	.1938
16.60	.2535	.2534	.2509	.2994	.2868	.2819	.2583	.2261	.1938
16.80	.2535	.2534	.2507	.2994	.2868	.2817	.2583	.2261	.1938
17.00	.2535	.2534	.2506	.2970	.2868	.2814	.2583	.2261	.1938
17.20	.2535	.2534	.2503	.2970	.2868	.2811	.2583	.1938	.1938
17.40	.2535	.2534	.2500	.2970	.2868	.2808	.2362	.1938	.1938
17.60	.2535	.2534	.2496	.2970	.2868	.2804	.2362	.1938	.1938
17.80	.2535	.2534	.2493	.2970	.2868	.2801	.2362	.1938	.1938
18.00	.2535	.2534	.2488	.2868	.2868	.2797	.2362	.1938	.1938
18.20	.2535	.2534	.2484	.2868	.2797	.2794	.2362	.1938	.1938
18.40	.2535	.2534	.2484	.2844	.2794	.2790	.2362	.1938	.1938
18.60	.2535	.2534	.2480	.2844	.2794	.2790	.2362	.1938	.1938
18.80	.2535	.2534	.2476	.2844	.2791	.2787	.1962	.1938	.1938
19.00	.2535	.2534	.2472	.2844	.2787	.2783	.1962	.1817	.1778
19.20	.2535	.2469	.2469	.2844	.2783	.2780	.1962	.1817	.1774
19.40	.2535	.2465	.2465	.2844	.2779	.2776	.1962	.1817	.1770
19.60	.2535	.2463	.2463	.2844	.2776	.2772	.1882	.1817	.1765
19.80	.2535	.2460	.2460	.2844	.2772	.2768	.1882	.1817	.1760
20.00	.2535	.2458	.2458	.2844	.2768	.2764	.1882	.1817	.1754
	.2535	.2455	.2455	.2844	.2764	.2762	.1882	.1817	.1749

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-40 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
20.20	.2535	.2450	.2450	.2450	.2844	.2762	.2762	.2757	.1882	.1817	.1817	.1743
20.40	.2535	.2449	.2449	.2448	.2844	.2762	.2762	.2754	.1882	.1817	.1817	.1738
20.60	.2535	.2447	.2447	.2446	.2844	.2762	.2762	.2751	.1882	.1817	.1817	.1733
20.80	.2535	.2446	.2445	.2444	.2844	.2762	.2762	.2749	.1882	.1817	.1817	.1728
21.00	.2535	.2444	.2443	.2442	.2844	.2762	.2762	.2746	.1837	.1740	.1732	.1723
21.20	.2535	.2442	.2441	.2441	.2844	.2762	.2762	.2744	.1837	.1735	.1727	.1718
21.40	.2445	.2439	.2439	.2439	.2762	.2762	.2762	.2742	.1837	.1730	.1721	.1713
21.60	.2440	.2437	.2437	.2437	.2762	.2762	.2762	.2740	.1837	.1723	.1715	.1708
21.80	.2435	.2435	.2435	.2435	.2762	.2762	.2762	.2738	.1837	.1716	.1709	.1702
22.00	.2433	.2433	.2433	.2433	.2762	.2762	.2762	.2736	.1837	.1708	.1702	.1697
22.20	.2431	.2431	.2431	.2431	.2762	.2762	.2762	.2735	.1837	.1699	.1695	.1691
22.40	.2430	.2430	.2430	.2430	.2762	.2762	.2762	.2733	.1837	.1690	.1688	.1686
22.60	.2428	.2428	.2428	.2428	.2762	.2762	.2762	.2731	.1837	.1681	.1681	.1681
22.80	.2427	.2427	.2427	.2427	.2762	.2762	.2762	.2730	.1837	.1676	.1675	.1675
23.00	.2426	.2426	.2426	.2426	.2762	.2762	.2762	.2728	.1837	.1676	.1670	.1670
23.20	.2425	.2424	.2424	.2424	.2762	.2762	.2762	.2727	.1837	.1676	.1670	.1666
23.40	.2425	.2423	.2423	.2423	.2762	.2762	.2762	.2725	.1837	.1676	.1670	.1666
23.60	.2425	.2422	.2422	.2422	.2762	.2762	.2762	.2724	.1837	.1676	.1670	.1666
23.80	.2425	.2421	.2421	.2421	.2762	.2762	.2762	.2722	.1837	.1676	.1670	.1666
24.00	.2423	.2420	.2420	.2420	.2762	.2762	.2762	.2721	.1761	.1676	.1670	.1666
24.20	.2421	.2420	.2420	.2420	.2762	.2762	.2762	.2719	.1761	.1676	.1670	.1666
24.40	.2421	.2420	.2420	.2420	.2762	.2762	.2762	.2718	.1761	.1676	.1670	.1666
24.60	.2421	.2420	.2420	.2420	.2762	.2762	.2762	.2717	.1761	.1676	.1670	.1666
24.80	.2421	.2420	.2420	.2420	.2762	.2762	.2762	.2716	.1761	.1676	.1670	.1666
25.00	.2421	.2420	.2420	.2420	.2723	.2716	.2716	.2715	.1761	.1676	.1670	.1666
25.20	.2421	.2420	.2420	.2420	.2723	.2716	.2715	.2714	.1761	.1676	.1670	.1666
25.40	.2420	.2420	.2420	.2420	.2723	.2715	.2714	.2713	.1761	.1676	.1670	.1666
25.60	.2420	.2420	.2420	.2420	.2723	.2715	.2713	.2711	.1761	.1676	.1670	.1666
25.80	.2420	.2420	.2420	.2420	.2723	.2714	.2712	.2710	.1761	.1676	.1670	.1666
26.00	.2420	.2420	.2420	.2420	.2723	.2713	.2711	.2709	.1761	.1676	.1670	.1666
26.20	.2420	.2420	.2420	.2420	.2723	.2712	.2710	.2708	.1761	.1676	.1670	.1666
26.40	.2420	.2420	.2420	.2420	.2723	.2711	.2709	.2707	.1700	.1676	.1670	.1666
26.60	.2420	.2420	.2420	.2420	.2723	.2710	.2708	.2706	.1700	.1676	.1670	.1666
26.80	.2420	.2420	.2420	.2420	.2723	.2709	.2707	.2705	.1700	.1676	.1670	.1666

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-40 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
27.00	.2420	.2420	.2420	.2420	.2723	.2707	.2706	.2704	.1700	.1676	.1670	.1666
27.20	.2420	.2420	.2420	.2420	.2723	.2706	.2705	.2703	.1700	.1676	.1670	.1666
27.40	.2420	.2420	.2420	.2420	.2723	.2704	.2703	.2702	.1700	.1676	.1670	.1666
27.60	.2420	.2420	.2420	.2420	.2723	.2703	.2702	.2701	.1700	.1676	.1670	.1666
27.80	.2420	.2420	.2420	.2420	.2723	.2702	.2701	.2699	.1700	.1676	.1670	.1666
28.00	.2420	.2420	.2420	.2420	.2723	.2702	.2700	.2698	.1700	.1676	.1670	.1666
28.20	.2420	.2420	.2420	.2420	.2723	.2701	.2699	.2697	.1700	.1676	.1670	.1666
28.40	.2420	.2420	.2420	.2420	.2723	.2700	.2699	.2696	.1700	.1676	.1670	.1666
28.60	.2420	.2420	.2420	.2420	.2723	.2700	.2698	.2695	.1700	.1676	.1670	.1666
28.80	.2420	.2420	.2420	.2420	.2723	.2700	.2697	.2694	.1700	.1676	.1670	.1666
29.00	.2420	.2420	.2420	.2420	.2723	.2700	.2697	.2693	.1700	.1676	.1670	.1666
29.20	.2420	.2420	.2420	.2420	.2723	.2699	.2696	.2692	.1700	.1676	.1670	.1666
29.40	.2420	.2420	.2420	.2420	.2723	.2699	.2695	.2692	.1700	.1676	.1670	.1666
29.60	.2420	.2420	.2420	.2420	.2723	.2699	.2695	.2691	.1700	.1676	.1670	.1666
29.80	.2420	.2420	.2420	.2420	.2723	.2698	.2694	.2690	.1700	.1676	.1670	.1666
30.00	.2420	.2420	.2420	.2420	.2723	.2697	.2693	.2689	.1700	.1676	.1670	.1666
30.20	.2420	.2420	.2420	.2420	.2705	.2697	.2693	.2689	.1700	.1675	.1670	.1666
30.40	.2420	.2420	.2420	.2420	.2704	.2696	.2692	.2689	.1700	.1675	.1670	.1666
30.60	.2420	.2420	.2420	.2420	.2702	.2694	.2691	.2688	.1700	.1675	.1670	.1666
30.80	.2420	.2420	.2420	.2420	.2699	.2693	.2690	.2687	.1700	.1675	.1670	.1666
31.00	.2420	.2420	.2420	.2420	.2696	.2691	.2689	.2685	.1697	.1675	.1670	.1666
31.20	.2420	.2420	.2420	.2420	.2693	.2690	.2687	.2684	.1694	.1675	.1670	.1666
31.40	.2416	.2411	.2411	.2411	.2691	.2688	.2686	.2683	.1691	.1675	.1670	.1666
31.60	.2416	.2411	.2411	.2411	.2689	.2686	.2685	.2682	.1687	.1675	.1670	.1666
31.80	.2416	.2411	.2411	.2411	.2687	.2685	.2683	.2682	.1685	.1675	.1670	.1666
32.00	.2416	.2411	.2411	.2411	.2686	.2683	.2682	.2682	.1683	.1675	.1670	.1666
32.20	.2416	.2411	.2411	.2411	.2685	.2682	.2682	.2682	.1682	.1674	.1670	.1666
32.40	.2416	.2411	.2411	.2411	.2685	.2682	.2682	.2682	.1681	.1674	.1670	.1666
32.60	.2416	.2411	.2411	.2411	.2684	.2682	.2682	.2682	.1681	.1673	.1670	.1666
32.80	.2416	.2411	.2411	.2411	.2683	.2682	.2682	.2682	.1681	.1673	.1670	.1666
33.00	.2416	.2411	.2411	.2411	.2682	.2682	.2682	.2682	.1681	.1672	.1670	.1666
33.20	.2416	.2411	.2411	.2411	.2682	.2682	.2682	.2682	.1681	.1672	.1670	.1666
					.2682	.2682	.2682	.2682	.1678	.1671	.1670	.1666

Приложение № 3

ТЕХНИЧЕСКИ ПАРАМЕТРИ

За доставка на вентилатори LK11LA01/02, LK13LA01/02, LK14LA01/02, LK21LC01/02, LK23LC01/02, LK24LC01/02, LK31LC01/02 и прилежащо оборудване в цех ХОГ на АЕЦ „Козлодуй”

1. Вентилатори

№	Технологично обозначение	тип	Технически характеристики на вентилатора	Технически характеристики на ел. двигателя	Допълнителни изисквания
1	LK11LA01; LK11LA02	Центробежен вентилатор с работно колело монтирано директно към вала на ел. двигателя; положение* – ляво - 0° - 2 броя	- разход - 21800 м ³ /ч; - напор – 1422 Pa;	- напрежение - 380 V; - мощност – до 18.3 kW; - честота - 50 Hz; - степен на защита - мин. IP 44; - клас на изолация – F; - обороти – 735 min ⁻¹ (препоръчително).	- подавана среда – атмосферен въздух – грубо очистен; - честотно регулиране на ел. двигателя с честотен регулатор тип Power Flex 70, 37A (съществуващо); - мека връзка към съществуващите въздуховоди/клапани: 566x566 mm; L=350 mm. (изход); Dy=900 mm; L=400 mm. (вход); - корпус от въглеродна стомана.
2	LK13LA01	Центробежен вентилатор с работно колело монтирано директно към вала на ел. двигателя;	- разход - 28700 м ³ /ч; - напор – 1422 Pa;	- напрежение - 380 V; - мощност – до 22 kW; - честота - 50 Hz; - степен на защита - мин.	- подавана среда – атмосферен въздух – грубо очистен; - честотно регулиране на ел. двигателя с честотен регулатор тип Power Flex 70,

№	Технологично обозначение	тип	Технически характеристики на вентилатора	Технически характеристики на ел. двигателя	Допълнителни изисквания
		- положение – ляво-0° - 1 брой		iP 44; - клас на изолация – F; - обороти – 750 min ⁻¹ (препоръчително).	43A (съществуващо); - мека връзка към съществуващите въздуховоди/клапани: 566x566 mm; L=400 mm. (изход); Dy=900 mm; L=150 mm. (вход); - корпус от въглеродна стомана.
3	LK13LA02	Центробежен вентилатор с работно колело монтирано директно към вала на ел. двигателя; - положение - дясно - 0° - 1 брой	- разход - 28700 м ³ /ч; - напор – 1422 Pa;	- напрежение - 380 V; - мощност – до 22 kW; - честота - 50 Hz; - степен на защита - мин. iP 44; - клас на изолация – F; - обороти – 750 min ⁻¹ (препоръчително).	- подавана среда – атмосферен въздух – грубо очистен; - честотно регулиране на ел. двигателя с честотен регулатор тип Power Flex 70, 43A (съществуващо); - мека връзка към съществуващите въздуховоди/клапани: 566x566 mm; L=200 mm. (изход); Dy=900 mm; L=200 mm. (вход); - корпус от въглеродна стомана.
4	LK14LA01; LK14LA02	Центробежен вентилатор с работно колело монтирано директно към вала на ел. двигателя;	- разход - 28500 м ³ /ч; - напор – 1471 Pa;	- напрежение - 380 V; - мощност – до 22 kW; - честота - 50 Hz; - степен на защита - мин.	- подавана среда – атмосферен въздух – грубо очистен; - честотно регулиране на ел. двигателя с честотен регулатор тип Power Flex 70,

№	Технологично обозначение	тип	Технически характеристики на вентилатора	Технически характеристики на ел. двигателя	Допълнителни изисквания
		- положение – дясно - 0° - 2 броя		iP 44; - клас на изолация – F; - обороти – 750 min ⁻¹ (препоръчително).	43A (съществуващо); - мека връзка към съществуващите въздуховоди/клапани: 566x566 mm; L=300 mm. (изход); Dy=900 mm; L=200 mm. (вход); - корпус от въглеродна стомана.
5	LK21LC01	Центробежен вентилатор с работно колело монтирано директно към вала на ел. двигателя; - положение – ляво-270° - 1 брой	- разход - 24500 м ³ /ч; - напор – 2354 Pa;	- напрежение - 380 V; - мощност – до 37 kW; - честота - 50 Hz; - степен на защита - мин. iP 44; - клас на изолация – F; - обороти – 980 min ⁻¹ (препоръчително).	- изсмуквана среда – атмосферен въздух от производствени помещения с повишена влажност (90÷95%), но без агресивни газове; - честотно регулиране на ел. двигателя с честотен регулатор тип Power Flex 70, 72A (съществуващо); - мека връзка към съществуващите въздуховоди: 566x568 mm; L=300 mm. (изход); Dy=680 mm; L=300 mm. (вход); - корпус от въглеродна стомана.
6	LK21LC02	Центробежен вентилатор с работно колело	- разход - 24500 м ³ /ч; - напор – 2354 Pa;	- напрежение - 380 V; - мощност – до 37 kW;	- изсмуквана среда – атмосферен въздух от производствени помещения с

№	Технологично обозначение	тип	Технически характеристики на вентилатора	Технически характеристики на ел. двигателя	Допълнителни изисквания
		монтирано директно към вала на ел. двигателя; - положение - дясно - 270° - 1 брой		- честота - 50 Hz; - степен на защита - мин. iP 44; - клас на изолация – F; - обороти – 980 min ⁻¹ (препоръчително).	повишена влажност (90÷95%), но без агресивни газове; - честотно регулиране на ел. двигателя с честотен регулатор тип Power Flex 70, 72A (съществуващо); - мека връзка към съществуващите въздуховоди: 566x568 mm; L=300 mm. (изход); Dy=680 mm; L=300 mm. (вход); - корпус от въглеродна стомана.
7	LK23LC01	Центробежен вентилатор с работно колело монтирано директно към вала на ел. двигателя; - положение – ляво-270° - 1 брой	- разход - 18500 м ³ /ч; - напор – 1765 Pa;	- напрежение - 380 V; - мощност – до 15 kW; - честота - 50 Hz; - степен на защита - мин. iP 44; - клас на изолация – F; - обороти – 975 min ⁻¹ (препоръчително).	- изсмуквана среда – атмосферен въздух от производствени помещения без агресивни газове; - честотно регулиране на ел. двигателя с честотен регулатор тип Power Flex 70, 30A (съществуващо); - мека връзка към съществуващите въздуховоди: 470x470 mm; L=230 mm. (изход); Dy=660 mm; L=330 mm. (вход);

№	Технологично обозначение	тип	Технически характеристики на вентилатора	Технически характеристики на ел. двигателя	Допълнителни изисквания
					- корпус от въглеродна стомана.
8	LK23LC02	Центробежен вентилатор с работно колело монтирано директно към вала на ел. двигателя; - положение – дясно - 270° - 1 брой	- разход - 18500 м ³ /ч; - напор – 1765 Pa;	- напрежение - 380 V; - мощност – до 15 kW; - честота - 50 Hz; - степен на защита - мин. iP 44; - клас на изолация – F; - обороти – 975 min ⁻¹ (препоръчително).	- изсмуквана среда – атмосферен въздух от производствени помещения без агресивни газове; - честотно регулиране на ел.двигателя с честотен регулатор тип Power Flex 70, 30A (съществуващо); - мека връзка към съществуващите въздуховоди: 470x470 mm; L=330 mm. (изход); Dy=660 mm; L=240 mm. (вход); - корпус от въглеродна стомана.
9	LK24LC01	Центробежен вентилатор с работно колело монтирано директно към вала на ел. двигателя; - положение – ляво- 270° - 1 брой	- разход - 19000 м ³ /ч; - напор – 1765 Pa;	- напрежение - 380 V; - мощност – до 18.5 kW; - честота - 50 Hz; - степен на защита - мин. iP 44; - клас на изолация – F; - обороти – 975 min ⁻¹ (препоръчително).	- изсмуквана среда – атмосферен въздух от производствени помещения без агресивни газове; - честотно регулиране на ел.двигателя с честотен регулатор тип Power Flex 70, 37A (съществуващо); - мека връзка към съществуващите въздуховоди:

№	Технологично обозначение	тип	Технически характеристики на вентилатора	Технически характеристики на ел. двигателя	Допълнителни изисквания
					470x470mm; L=300 мм. (изход); Dy=660 mm; L=300 мм. (вход); - корпус от въглеродна стомана.
10	LK24LC02	Центробежен вентилатор с работно колело монтирано директно към вала на ел. двигателя; - положение – дясно - 270° - 1 брой	- разход - 19000 м ³ /ч; - напор – 1765 Pa;	- напрежение - 380 V; - мощност – до 18.5 kW; - честота - 50 Hz; - степен на защита - мин. IP 44; - клас на изолация – F; - обороти – 975 min ⁻¹ (препоръчително).	- изсмуквана среда – атмосферен въздух от производствени помещения без агресивни газове; - честотно регулиране на ел.двигателя с честотен регулатор тип Power Flex 70, 37A (съществуващо); - мека връзка към съществуващите въздуховоди: 470x470mm; L=250 мм. (изход); Dy=660 mm; L=280 мм. (вход); - корпус от въглеродна стомана.
11	LK31LC01; LK31LC02	Центробежен вентилатор с работно колело монтирано директно към вала на ел. двигателя; - положение – ляво- 270° - 2 броя	- разход - 8700 м ³ /ч; - напор – 1255 Pa;	- напрежение - 380 V; - мощност – до 5.5 kW; - честота - 50 Hz; - степен на защита - мин. IP 44; - клас на изолация – F;	- изсмуквана среда – атмосферен въздух от производствени помещения без агресивни газове; - честотно регулиране на ел.двигателя с честотен регулатор тип Power Flex 70, 11A (съществуващо);

№	Технологично обозначение	тип	Технически характеристики на вентилатора	Технически характеристики на ел. двигателя	Допълнителни изисквания
				- обороти – 1450 min^{-1} (препоръчително).	- мека връзка към съществуващите въздуховоди/клапани: 566x442 mm; L=230 mm. (изход); Dy=630 mm; L=260 mm. (вход); - корпус от въглеродна стомана.

**Посоката на вентилатора се дефинира при поглед откъм смукателния щуц.*

ЗАБЕЛЕЖКА: *Обект на доставката е агрегатът включващ и виброрама и меките връзки.*

2. Филтри*

№	Технологично обозначение	тип	Филтърна материя	клас	дебит	Допълнителни изисквания
1	LK11LF01	Джобен филтър с предна рамка от пластмаса или метал с максимална дълбочина на джоба до 80 см.	огнеупорно синтетично влакно F1-DIN 53438	G3, G4	21800 м ³ /ч	Необходимият дебит да се осигури чрез групиране на няколко филтъра; **Съществуващ отвор: 100x150 см.
2	LK13LF01	Джобен филтър с предна рамка от пластмаса или метал с максимална дълбочина на джоба до 80 см.	огнеупорно синтетично влакно F1-DIN 53438	G3, G4	28700 м ³ /ч	Необходимият дебит да се осигури чрез групиране на няколко филтъра; **Съществуващ отвор: 100x150 см.
3	LK14LF01	Джобен филтър с предна рамка от пластмаса или метал с максимална дълбочина на джоба до 80 см.	огнеупорно синтетично влакно F1-DIN 53438	G3, G4	28500 м ³ /ч	Необходимият дебит да се осигури чрез групиране на няколко филтъра; **Съществуващ отвор: 100x150 см.

ЗАБЕЛЕЖКИ:

- *Филтрите да се оборудват със съответната клетъчна рамка за монтаж на стена;
- **При невъзможност да се осигури искания дебит през съществуващия отвор, да се даде предложение за група от филтри и необходимия размер на отвора.

3. Диференциални манометри*

№	Степен на защита	Изходен сигнал	обхват**	Основна грешка	Допълнителни изисквания
1	IP54	EtherNet комуникация	±500 Pa	3 % от показанието	Манометърът да се окомплектова със съответният захранващ блок; Възможност за визуализация по място.

ЗАБЕЛЕЖКИ:

- *3 бр. – за измерване на диференциално налягане във филтрите по позиция 2;
- **Обхватът да е съобразен с крайното диференциално налягане във филтрите по позиция 2.

4. Клапани

№	Технологично обозначение	тип	Технически характеристики	Допълнителни изисквания
1	LK11ZM02; LK11ZM03	Въздушен клапан – двупозиционен (отворено и затворено положение), 2 бр.	Ду – 900; Ширина – до 360 мм.	Клапанът да се оборудва с подходящ ел. привод с работно напрежение 220/380V.
2	LK13ZM02; LK13ZM03	Въздушен клапан - двупозиционен (отворено и затворено положение), 2 бр.	Ду – 900 Ширина – до 360 мм.	Клапанът да се оборудва с подходящ ел. привод с работно напрежение 220/380V.
3	LK14ZM02; LK14ZM03	Въздушен клапан - двупозиционен (отворено и затворено положение), 2 бр.	Ду – 900 Ширина – до 360 мм.	Клапанът да се оборудва с подходящ ел. привод с работно напрежение 220/380V.
4	-	Клапани свободно падащ тип, за вертикален монтаж, 6 бр.	566x566 mm	За напорна страна на вентилационни системи LK11; LK13; LK14

ЗАБЕЛЕЖКА: Съществуващите клапани са жалюзийен тип.